

SCANNED

DERR 2009-009370

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June 9, 2009

Project No.: 1241-026A

SUBJECT: Monthly Report of Corrective Action – May 2009  
C-4 Top Stop  
15 South Main Street  
Gunnison, Utah  
UST Facility No. 2000220  
Release Site EMHB

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JUN 09 2009

Environmental Response &  
Remediation

This monthly report has been prepared pursuant to the reporting requirements set forth in the May 9, 2008, Corrective Action Plan Summary Letter prepared by Wasatch Environmental, Inc. (Wasatch) on behalf of Wind River Petroleum. This report provides a brief background summarizing initial emergency response activities conducted following the discovery of a petroleum release at the C-4 Top Stop facility, estimates of contaminant mass removal, the status of remedial systems currently in place, recent actions, and planned actions.

## 1. BACKGROUND

The C-4 Top Stop formerly operated as a convenience store and gas station at 15 South Main Street in Gunnison, Utah. On August 8, 2007, gasoline vapors were reported in businesses near the C-4 Top Stop. On August 9, Wind River Petroleum requested that Wasatch conduct an emergency response and preliminary investigation, which was initiated on August 10. Gasoline vapors were measured in buildings where vapors were reported, and ventilation fans were used to remove vapors from affected buildings.

Between August 21 and 27, 2007, Wasatch oversaw the removal of four underground storage tanks from the Top Stop property. Between August 15, 2007, and February 14, 2008, approximately 300 borings were advanced to identify the extent of the vapor plume. The East and West horizontal soil vapor extraction (SVE) systems were completed on both sides of Main Street on August 29 and September 21, respectively. During November 2007, the South SVE system was installed and began operation on November 20, 2007. Catalytic oxidizers were installed to provide emissions treatment for the East, West, and South systems. The Central SVE System began operation on November 27, 2007, utilizing a flame oxidizer system to burn extracted vapors. Installation of a sparge curtain treatment system was initiated on December 4, 2007, at the leading edge of the groundwater plume, and the system was activated on January 22, 2008 (see Figure 1).

Throughout the period of investigation, system installation, and remediation, Summa canisters have been utilized to analyze indoor air in businesses and homes where occupants reported gasoline odors or were concerned that gasoline vapors might be present.

## 2. ESTIMATES OF CONTAMINANT MASS REMOVAL

The estimated quantity of gasoline removed from the subsurface by the five operating SVE systems through May 27, 2009, is presented on Table 1 below. During the period of relatively high groundwater elevations across the site between July and November 2008, vapor extraction was suppressed in each SVE system. During the period of relatively low groundwater elevations between December 2008 and May 2009, contaminant mass extracted by the SVE systems improved.

The concentration of vapors extracted by the Central SVE System from March through April 15, 2009, showed an increase in concentration, peaking at 26.2 ppm on April 15 (Table 3). Vapor concentrations, however, have decreased throughout the last half of April and the month of May. Based on average vapor concentrations, the Estimated Mass Removal during March, April, and May was 7, 7, and 4 gallons, respectively. During the period between April 28 and May 27, the groundwater level in MW-23, which is located near the Central SVE System, rose approximately 0.29 ft. (Table 4, Appendix A), which correlates with the latest decrease in vapor concentrations.

Fuel combusted by the West B Catox System increased each month between December 2008 and March 2009. The estimated mass removal between March 10 and April 8, 2009, was 81 gallons, compared to 60 gallons during the remainder of April, and 35 gallons during the month of May. During the period between April 15 and May 27, the groundwater level in MW-5, which is located near the West SVE System, rose 1.02 ft., which correlates with the latest decrease in vapor concentrations.

The West Alley SVE System began to show an increase in extracted vapor concentrations during January 2009 and reached a maximum removal of 7 gallons of fuel during the month of April, before declining to 2 gallons during the month of May 2009. As in the West SVE System, the drop in vapor concentrations apparently resulted from the rise in groundwater elevation during the same period.

Currently, vapor emissions from six SVE systems are measured periodically with a PID (See Table 3).

**Table 1. Estimated Mass Removal**

TIME OF OPERATION	West A SVE CAT-OX	West B SVE CAT-OX	East SVE CAT-OX	Central SVE Flame-OX	South SVE CAT-OX	West Alley SVE	Gallons Combusted
STARTUP DATE	11-21-07	12-05-07	11-13-07	3-04-08	12-12-07	5-16-08	
STARTUP TO 06/11/08	3,069	1,293	2,863	3,166	452	---	10,843
06/11/08 TO 07/15/08	49	34	16	117	10	172	398
07/15/08 TO 12/10/08	NM/NC	NM/NC	NM/NC	NM/NC	NM/NC	NC	NM/NC
12/10/08 TO 01/07/09	System Off	5	NM/NC	NM/NC	NM/NC	NC	5
01/10/08 TO 02/03/09	System Off	13	NM/NC	<1	NM/NC	<1	13
2/03/09 TO 3/10/09	System Off	18	NM/NC	NM/NC	NM/NC	<1	18
3/10/09 TO 4/08/09	System Off	81	NM/NC	7	NM/NC	4	92
4/08/09 TO 5/01/09	System Off	60	NM/NC	7	NM/NC	7	74
5/01/09 TO 5/27/09	System Off	35	NM/NC	4	NM/NC	2	41
TOTALS BY SYSTEM	3,118	1,539	2,879	3,301	462	185	11,484

- a) NM: Not Measurable – No temperature increase across Catox and Flame oxidizer units
- b) NC: Not calculated due to insignificant concentrations
- c) The Gallons Combusted column in the above table does not reflect gallons removed by the East and West SVE Systems during the period before catalytic oxidizers were installed.
- d) Based on average PID readings obtained during the period from 7/16/2008 through 1/07/2009 (See Table 3), the Central SVE System has combusted an additional 34 gallons of contaminant mass, which is not included in the above table.

### 3. BUILDING VENTILATION SYSTEMS

Eleven Building Ventilation Systems are currently operating in two businesses and nine residences across the site. PID measurements are taken monthly from the exhaust stacks of the ventilation systems. PID data obtained between May 14, 2008, and May 20, 2009, are presented on Table 2.

**Table 2. Building Ventilation Systems Emissions – PID Data (PPM)**

Date of PID Measurement	26W 100 S St.	36W 100 S St.	29W 100 S St.	39 W 100 S St.	59 W 200 S St. (Side)	59W 200 S St. (Rear)	60 W 200 S St.	70 W 200 S St.	96 W 200 S St.	His N Hers	White Hills Trading Co
05-14-08	0.0	10.2	18.3	92	---	---	0.0	---1	0.0	16.8	---
05-23-08	0.0	0.9	16.8	85	0.0	2.6	0.0	---	0.0	24.5	---
06-03-08	0.1	0.2	11.0	41	0.0	0.9	0.0	---	0.0	18.0	---
06-11-08	0.0	0.2	12.0	35	0.0	1.1	0.0	---	0.0	19.9	---
06-18-08	0.0	0.0	9.0	29	0.0	0.6	0.0	---	0.0	---	---
06-25-08	0.0	0.4	7.0	20.5	0.0	0.0	0.0	---	0.0	---	---
07-01-08	0.0	0.0	5.6	16.4	0.0	0.0	0.0	---	0.0	17	---
07-08-08	0.0	0.0	3.0	12.1	0.0	0.0	0.1	---	0.0	---	---
07-16-08	0.1	0.0	2.2	11.4	0.0	0.0	0.0	---	0.0	11	---
07-31-08	0.0	0.0	1.5	8.3	0.0	0.0	0.0	---	0.0	7.6	---
08-26-08	---	---	1.0	8.0	---	---	---	---	---	---	---
09-16-08	0.0	0.0	0.0	5.7	0.0	0.0	0.0	---	0.0	3.7	0.0
10-21-08	0.0	---	0.0	3.3	0.0	0.0	0.0	---	0.0	1.8	0.0
11-13-08	0.0	0.0	0.0	2.1	0.0	0.0	0.0	---	0.0	---	0.0
12-19-08	0.0	0.0	2.9	6.4	0.0	0.0	0.0	---	0.0	3.9	0.0
01-20-09	0.0	0.0	1.5	3.8	0.0	0.0	0.0	---	0.0	3.6	0.0
02-17-09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	0.0	2.2	0.0
03-17-09	0.0	0.0	4.2	12.0	0.0	0.0	0.0	---	0.0	3.4	0.0
04-15-09	0.0	0.0	1.4	1.9	0.0	0.0	0.0	---	0.0	1.2	0.0
05-20-09	0.0	0.0	2.7	2.8	0.0	0.0	0.0	---	0.0	1.9	0.0

<sup>1</sup> Ventilation piping is inside residence. Discharge is on the roof.

#### 4. OPERATING CONDITIONS

##### 4.1 Power Outages

During April and May 2009, no system shut-downs of the East, West, Central, or West Alley SVE systems occurred as a result of power outages.

##### 4.2 Groundwater Depth

The concentration of vapors removed from the subsurface by the SVE systems was limited by a relatively high groundwater table throughout the last half of 2008. In September 2008, groundwater levels across the site began falling and continued to fall through the end of 2008. During the first three months of 2009, groundwater levels continued to fall consistently. Between April 8 and May 27, groundwater levels have generally risen across the site.

Currently, Wasatch periodically monitors groundwater levels in wells WS-2, TW-3, MW-1, MW-5, MW-9, MW-12, MW-14, and MW-23 to track water table fluctuations (See Table 4, Appendix A). Depth-to-water graphs for these wells are presented in Appendix B.

## **5. SYSTEM STATUS**

### **5.1 East SVE System**

PID readings between 0.0 and 7.8 ppm were obtained from system emissions measured between April 8 and May 26, 2009 (Table 3). The Catox circular charts have recorded no temperature increase.

### **5.2 West SVE System**

Due to reduced concentrations of vapors recovered from the SVE trench on the west side of Main Street and the SVE trench behind the Casino Star Theatre, the West A catalytic oxidizer was turned off in August 2008. Vapors from the two SVE trenches and from the conduit inside the theater basement are currently combusted by the West B catalytic oxidizer.

During the month of December 2008, the concentration of vapors recovered by the West B unit increased, reaching a high PID reading of 162 ppm on January 8, 2009, primarily from the West Alley trench. Vapor concentrations moderated in January and February, before once again rising to maximum levels during the month of March and early April 2009. The temperature increase across the West B Catox rose to a maximum of 46 degrees on April 8, in conjunction with the highest PID reading of 189 ppm. However, since April 8, vapor concentrations have steadily decreased throughout April and May to a low reading of 39 ppm on May 26.

### **5.3 West Alley SVE System**

In 2009, vapor concentrations increased between January and April 8, then fell from April 8 through May 26. From a maximum reading of 306 ppm on April 8, 2009, vapor concentrations fell to a reading of 4 ppm on May 26, 2009.

### **5.4 Central SVE System**

Due to reduced concentrations of vapors recovered by the Central SVE System, the flame oxidation unit is currently shut off, and vapors are being treated by carbon filtration. PID readings on March 17 and 27, and April 2, 8, and 15, 2009, ranged between 11.8 and 26.2 ppm. Since April 15, when the highest reading was observed, vapor concentrations have steadily fallen to a reading of 3.5 ppm on May 26.

### **5.5 South SVE System**

Currently, two SVE systems operate independently. The South SVE System extracts air from the horizontal trench system located to the north of the 255 South 100 West Street residence. The air stream is passed through a catalytic oxidizer. A reading of 3.8 ppm was obtained on April 8, 2009. PID readings obtained after April 8 have ranged between 0.0 and 1.6 ppm.

The 255 South 100 West Street SVE System extracts vapors from wells EW-1 and EW-2, and from a well inside the residence. The air stream is passed through carbon filtration. A PID reading of 5.3 ppm was observed on April 8, 2009.

### **5.6 Sparge Curtain Treatment System**

This system consists of a groundwater sparge system and an SVE system. SVE emissions from the nine cells are tested periodically, using a PID. Between April 8 and May 27, 2009, no vapors were detected.

**Table 3. Soil Vapor Extraction Systems – Emissions – PID Data (PPM)**

Date of PID Measurement	East SVE System (PPM)	West SVE System (Unit A) (PPM)	West SVE System (Unit B) (PPM)	South SVE System (PPM)	Central SVE System (PPM)	Sparge Curtain (PPM)	West Alley SVE System (PPM)
May 20, 2008	115	332	391	65	383	0.0	1280
Jun 3, 2008	80	213	263	33	201	0.0	460
Jun 11, 2008	60	242	303	31	120	0.0	240
Jun 25, 2008	43	123	158	11.6	64	0.0	202
Jul 1, 2008	27	101	132	6.3	41	0.0	142
Jul 8, 2008	18	81	103	5.0	28	0.0	91
Jul 16, 2008	10	84	104	2.0	21	0.0	98
Jul 24, 2008	29	76	98	2.0	20	0.0	---
Sep 16, 2008	0.4	15.4	47	1.1	17	0.0	11.9
Oct 21, 2008	0.7	System off	35	1.0	8.8	0.0	2
Nov 13, 2008	0.1	System off	31.4	0.9	1.4	---	0.1
Nov 24, 2008	0.4	System off	45	0.0	---	0.0	---
Dec 1, 2008	0.1	System off	26	---	2.0	0.0	---
Dec 9, 2008	0.0	System off	51	0.0	3.4	0.0	0.5
Dec 19, 2008	0.0	System off	141	0.0	5.8	12.1	---
Dec 30, 2008	0.0	System off	151	0.0	3.9	1.9	--- <sup>1</sup>
Jan 07, 2009	0.9	System off	162	1.2	1.5	0.2	--- <sup>1</sup>
Jan 14, 2009	--- <sup>1</sup>	System off	80	---	---	0.0	0.0
Jan 20, 2009	--- <sup>1</sup>	System off	73	0.3	1.6	0.0	26
Jan 27, 2009	--- <sup>1</sup>	System off	56.5	0.0	1.26	0.0	50
Feb 03, 2009	3.5	System off	41	0.1	1.1	0.0	40
Feb 10, 2009	5.2	System off	42	0.0	1.1	0.0	32
Feb 17, 2009	5.9	System off	34.5	0.0	1.0	0.0	29
Feb 24, 2009	4.0	System off	53	0.0	0.8	0.0	32
Mar 03, 2009	6.5	System off	71	0.0	3.5	0.0	61
Mar 10, 2009	0.0	System off	123	1.5	7.5	0.0	90
Mar 17, 2009	0.0	System off	140	0.57	11.8	0.0	102
Mar 27, 2009	0.0	System off	178	0.75	20.2	0.0	87
Apr 3, 2009	0.0	System off	188	0.0	17.6	0.0	--- <sup>1</sup>
Apr 8, 2009	0.0	System off	189	3.8	24.8	0.0	306
Apr 15 2009	0.0	System off	170	1.6	26.2	0.0	155
Apr 28, 2009	0.0	System off	151	0.9	17.6	0.0	79
May 5, 2009	3.5	System off	---	---	11.2	0.0	---
May 11, 2009	---	System off	71	0.3	7.7	0.0	21
May 20, 2009	2.8	System off	55	0.1	5.7	0.0	9
May 26, 2009	7.8	System off	39	0.35	3.5	0.0	4.1

<sup>1</sup> Blower system undergoing repairs

## **6. ACTIONS**

### **6.1 Indoor Air Samples**

RMEC Environmental, Inc. (RMEC) has implemented a work plan to evaluate indoor air, sub-slab, or sub-soil vapor concentrations for homes and businesses within the area impacted by the release. The work plan was previously approved by the Utah Division of Environmental Response and Remediation (DERR). In April and May 2009, RMEC began evaluating soil vapor concentrations beneath and adjacent to the residences and businesses through the installation of sub-slab and sub-soil probes. Results of periodic subsurface air monitoring will be reported separately by RMEC.

### **6.2 Evaluation of Utilities**

On May 20, 2009, sewer manholes and selected water meter boxes located within and near plume boundaries were scanned for vapors, using a PID. No vapors were detected. The utilities will be checked again in June.

### **6.3 Groundwater Sparging**

In August 2008, groundwater sparging was initiated in wells in the East SVE area (on the Top Stop property), in the Central SVE area, and in the South SVE area. Following the rise in groundwater elevation in June 2008, the effectiveness of air sparging to reduce dissolved hydrocarbon concentrations in groundwater was evaluated.

Wells WS-1, WS-2, and WS-3 (East SVE System), trench wells TW-4 and TW-6 (Central SVE System), and trench wells TW-1 and TW-2 (South SVE System) are currently being utilized as groundwater sparge wells.

In March 2009, examination of WS-1, WS-2, and WS-3 indicated the three wells had become plugged with biomass. Maintenance was performed on the wells at that time.

The effectiveness of the groundwater sparging was evaluated in well WS-2 by laboratory analysis of groundwater samples obtained from the well. Prior to sampling, the air-sparge and SVE lines to the well were closed, and the well was allowed to equilibrate for 24 hours before sampling. Benzene concentration in well WS-2 was 3.8 mg/L on June 25, 2008. Groundwater sparging in WS-2 began in August 2008. In the sample obtained from WS-2 on November 11, 2008, benzene had decreased to 0.39 mg/L, and on February 19, 2009, the benzene concentration was 0.82 mg/L. In the latest sample obtained on May 12, 2009, benzene was detected at 2.4 mg/L, likely a result of the currently rising water table (Appendix C, p.5 of Table 5).

The effectiveness of sparging in wells WS-1, WS-2, and WS-3 has been limited by the buildup of silt in the wells and bio-fouling of the well screen. In contrast, there has been little silt accumulation in trench wells TW-1, TW-2, TW-4, and TW-6. As a result, air flow in the trench wells has been relatively unimpeded, and no biofouling has been observed.

### **6.4 Uninterrupted Power Supply**

Uninterrupted power supply (UPS) systems are currently installed in the East, West B, and South SVE systems. The UPS systems supply temporary electrical power until restoration of electrical service; these systems will then automatically restart. The Central, West Alley, and Sparge Curtain SVE systems start automatically upon restoration of electrical service following power outages.

## **6.5 Groundwater Monitoring Well Installation**

On April 27 and 28, 2009, six additional monitoring wells (MW-32–MW-37) were installed at selected locations outside the projected boundaries of the plume. The locations of both new and previously existing monitoring wells are illustrated on Figure 1. Well logs are presented in Appendix D.

## **6.6 Soil Sampling**

During the completion of the six new monitoring wells, soil core samples were collected at 5-foot intervals in each boring and field logged by an experienced geologist. The field logging included a description of color, moisture content, consistency, odor, staining, and soil type based on the Unified Soil Classification System.

Soil core samples were screened with a PID, equipped with a 10.6 eV lamp, immediately after opening each liner. The PID was calibrated with 100 ppm Isobutylene gas. Soil samples obtained from each boring were placed in sealed zip-loc bags and allowed to equilibrate at atmospheric pressure for approximately five minutes. Organic vapor readings were then taken with a PID by inserting the PID inlet probe into the bag and recording the maximum vapor reading in parts per million (ppm). PID sample locations in each well are noted on the well logs.

A laboratory soil sample was collected at or near the water table from each well. Samples were placed in laboratory-provided sample jars, labeled with the sample location, date, and time of collection, and transported in an iced cooler under chain-of-custody to American West Laboratories for analyses. Analyses included:

- Benzene, Toluene, Ethylbenzene, Total Xylenes, Naphthalene (BTEXN), EPA Method 8260B.
- Total Petroleum Hydrocarbons – Gasoline Range Organics (TPH-GRO), EPA Method 8260B.

Analytical results indicated below detection levels for all samples tested (See Appendix E – Laboratory Analyses – Soil Samples).

## **6.7 Quarterly Groundwater Sampling**

Quarterly monitoring was conducted in 26 monitoring wells across the site on May 12-13, 2009, including 20 previously sampled wells and the 6 new monitoring wells. The locations of the monitoring wells and the concentration of benzene detected in each sample are presented on Figure 1. No free product was observed in any of the monitoring wells. Groundwater samples were collected from each well using a new 1½-inch diameter disposable polyethylene bailer. Groundwater was purged until most solid particles were cleared from the groundwater, then groundwater samples were collected into hydrochloric acid (HCl)-preserved 40-milliliter glass vials containing Teflon septa lids. The 40-milliliter vials were filled slowly and completely to reduce the loss of volatiles. Groundwater samples were labeled with the location and the date and time of sample collection and placed in an iced cooler. The samples were transported in an iced cooler under chain-of-custody protocol to American West Analytical Laboratories for analyses. Groundwater samples from previously existing wells were analyzed for TPH-GRO/DRO and BTEXN using U.S. EPA Method 8260B. Groundwater samples from the six new monitoring wells (MW-32 through MW-37) were analyzed for TPH-GRO/DRO, and the full list of VOC's using U.S. EPA Method 8260B. A summary of current and historic groundwater analytical results is presented in Table 5 (Appendix C). The laboratory analytical results are presented in Appendix F.

Groundwater samples collected from four of the six new monitoring wells installed in May 2009 (MW-32 through MW-35) did not have any reported detections of TPH and BTEXN. Analytical results from up-gradient well MW-36, reported 0.047 mg/L of TPH-GRO, but below detection levels for all other hydrocarbon constituents. Monitoring well MW-37 had reported detections of TPH-GRO (2.3 mg/L), TPH-

DRO (0.064 mg/L), benzene (0.67 mg/L), toluene (0.011 mg/L), ethylbenzene (0.130 mg/L), total xylenes (0.0027 mg/L), and naphthalene (0.110 mg/L).

Most portions of the plume continue to show a decrease in contaminant concentrations. In the current laboratory report, groundwater samples collected from eight of the twenty wells previously analyzed (MW-2, MW-5, MW-20, MW-23, MW-25, MW-26, MW-27, and MW-29) showed a decrease in benzene concentrations. Samples from nine additional wells (MW3, MW-9, MW-14, MW-17, MW-19, MW-21, MW-24, MW-30, and MW-31) were below detection levels (BDL), eight of which have always been below detection levels. Groundwater samples collected from two wells (WS-2 and MW-22), located along the center line of the plume in the up-gradient portion had an increase in benzene concentrations.

Based on the February 2009 and May 2009 laboratory results, the outer boundary of the plume is not expanding in any direction, including the down-gradient direction. In the plume's up-gradient portion, with the exception of monitoring well MW-28, all groundwater samples collected from previously tested wells located near the outer perimeter (MW-5, MW-20, MW-22, and MW-25) have shown a decrease in contaminant concentration. Laboratory results from groundwater samples collected from MW-28 reported a low concentration of benzene (0.0036 mg/L) and below detection levels of all other constituents. All samples collected from mid-gradient and down-gradient monitoring wells (MW-2, MW-3, MW-17, MW-20, and MW-29), in which detections of hydrocarbon constituents had been previously reported, have significantly decreased in contaminant concentrations. Of these, the groundwater samples collected from wells MW-2, MW-3 and MW-17 were reported below the detection levels for all hydrocarbon constituents.

Our services consist of professional opinions and recommendations made in accordance with generally accepted environmental engineering principles and practices. This warranty is in lieu of all other warranties either expressed or implied. Should you have any questions, please do not hesitate to contact us.

Sincerely,

WASATCH ENVIRONMENTAL, INC.



Troy Smith  
Project Geologist



Rebecca Studenka  
Utah Certified UST Consultant



Les Pennington, P.E.  
Principal Engineer

Figures:      Figure 1 – Site Plan

Appendices:    Appendix A – Table 4, Historical Depth to Groundwater  
                  Appendix B – Historical Groundwater Depths Graphs  
                  Appendix C – Table 5, Historical Groundwater Chemistry  
                  Appendix D – Well Logs – New Monitoring Wells  
                  Appendix E – Laboratory Analysis – Soil Samples  
                  Appendix F- Quarterly Monitoring Laboratory Analytical Results

Copies:    (2) Addressee  
              (1) Mr. Morgan Atkinson, Utah DERR  
              (1) Gunnison City



**WASATCH**  
ENVIRONMENTAL

Environmental Science and Engineering

**May 2009 Benzene Concentrations  
In Groundwater**

Gunnison, Utah

PROJECT NO.	DRAWING DATE	FIGURE
1241-026A	June 1, 2009	1

## **APPENDIX A**

**TABLE 4**

### **HISTORICAL DEPTH TO GROUNDWATER**

**Table 4**  
**Historical Depth to Groundwater**  
**Updated on 6/01/2009**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**  
**Facility ID 2000220, Release ID EMHB**

Sample Identity	Date	Depth to Groundwater (ft)
TW-1	01/11/08	12.50
	02/26/08	12.36
	06/26/08	12.29
TW-2	01/11/08	13.22
	02/26/08	13.06
	06/26/08	12.76
TW-3	01/11/08	12.23
	02/26/08	12.32
	06/26/08	12.03
	08/22/08	10.71
	09/16/08	10.41
	10/22/08	10.44
	12/01/08	11.21
	12/09/08	11.34
	12/19/08	11.51
	12/30/08	11.67
	01/06/09	11.78
	01/20/09	11.43
	01/27/09	11.32
	02/03/09	11.22
	02/10/09	11.19
	02/17/09	11.13
	02/24/09	11.17
	03/10/09	11.75
	03/17/09	11.88
	03/27/09	12.14
	04/02/09	12.25
	04/08/09	12.34
	04/15/09	11.89
	04/28/09	12.10
	05/05/09	11.87
	05/11/09	11.84
	05/20/09	11.62
	05/27/09	11.74
TW-4	01/11/08	17.93
	06/26/08	15.95
TW-6	12/19/07	13.86
	06/26/08	13.46

**Table 4**  
**Historical Depth to Groundwater**  
**Updated on 6/01/2009**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**  
**Facility ID 2000220, Release ID EMHB**

WS-1	01/11/08	13.19
	02/26/08	13.59
	06/25/08	11.62
WS-2	01/11/08	12.61
	02/26/08	11.31
	06/25/08	11.23
	11/18/08	9.93
	01/14/09	11.95
	01/20/09	11.94
	01/27/09	11.92
	02/10/09	12.20
	02/24/09	12.19
	03/03/09	12.52
	03/10/09	12.48
	03/17/09	12.75
	04/08/09	13.11
	04/15/09	13.07
WS-3	05/11/09	12.41
	05/20/09	12.02
	01/11/08	10.50
	02/26/08	10.17
	06/25/08	10.21

**Table 4**  
**Historical Depth to Groundwater**  
**Updated on 6/01/2009**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**  
**Facility ID 2000220, Release ID EMHB**

<b>MW-1</b>	11/27/07	11.55
	12/19/07	11.89
	01/11/08	11.98
	02/26/08	11.85
	06/26/08	11.64
	08/22/08	10.84
	09/16/08	10.92
	10/22/08	11.06
	11/24/08	11.32
	12/01/08	11.43
	12/09/08	11.51
	12/19/08	11.61
	12/30/08	11.72
	01/06/09	11.78
	01/20/09	11.76
	01/27/09	11.43
	02/03/09	11.54
	02/10/09	11.54
	02/17/09	11.52
	02/24/09	11.52
	03/10/09	11.74
	03/17/09	11.68
	03/27/09	12.01
	04/02/09	12.07
	04/08/09	12.13
	04/15/09	12.00
	04/28/09	11.97
	05/11/09	11.72
	05/20/09	11.61
	05/27/09	11.50
<b>MW-2</b>	11/27/07	11.84
	12/19/07	12.15
	01/11/08	12.28
	02/26/08	12.09
	06/26/08	11.99
	11/18/08	11.70
	02/17/09	11.96
	05/11/09	12.15

**Table 4**  
**Historical Depth to Groundwater**  
**Updated on 6/01/2009**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**  
**Facility ID 2000220, Release ID EMHB**

<b>MW-3</b>	11/27/07	11.28
	12/19/07	11.64
	01/11/08	11.83
	02/26/08	11.48
	06/26/08	11.40
	11/18/08	11.04
	02/17/09	11.26
	05/11/09	11.50
<b>MW-4</b>	11/27/07	12.36
	12/19/07	12.36
	01/11/08	12.62
	02/26/08	12.15
	06/26/08	11.70
<b>MW-5</b>	01/11/08	15.11
	02/26/08	15.59
	06/26/08	14.77
	08/22/08	12.85
	09/16/08	12.93
	10/22/08	12.82
	10/29/08	12.85
	11/18/08	13.24
	12/01/08	13.51
	12/09/08	13.75
	12/19/08	14.10
	12/30/08	14.26
	01/06/09	14.44
	01/20/09	14.42
	01/27/09	14.38
	02/03/09	14.39
	02/10/09	14.43
	02/17/09	14.51
	02/24/09	14.73
	03/03/09	14.91
	03/10/09	15.13
	03/17/09	15.28
	03/27/09	15.49
	04/02/09	15.58
	04/08/09	15.67
	04/15/09	15.73
	04/28/09	15.67
	05/11/09	15.35
	05/20/09	15.61
	05/27/09	14.71

**Table 4**  
**Historical Depth to Groundwater**  
**Updated on 6/01/2009**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**  
**Facility ID 2000220, Release ID EMHB**

<b>MW-6</b>	01/11/08	12.20
	02/26/08	11.74
	06/26/08	11.62
	04/02/09	12.24
<b>MW-7</b>	01/11/08	12.55
	02/26/08	12.07
	06/26/08	11.91
	04/02/09	12.57
<b>MW-8</b>	01/11/08	12.95
	02/26/08	12.44
	06/26/08	12.04
<b>MW-9</b>	01/11/08	15.05
	02/26/08	14.54
	06/26/08	14.37
	11/18/08	13.61
	01/09/09	14.67
	01/27/09	14.11
	02/03/09	14.28
	02/17/09	14.20
	02/24/09	14.23
	03/03/09	14.20
	03/10/09	14.13
	03/17/09	14.07
	03/27/09	14.88
	04/02/09	15.02
	04/08/09	15.10
	04/15/09	14.98
	04/28/09	14.87
	05/11/09	14.84
	05/20/09	14.36
	05/27/09	13.74
<b>MW-11</b>	01/11/08	10.08
	02/26/08	10.52
	06/26/08	10.35
	10/22/08	9.42

**Table 4**  
**Historical Depth to Groundwater**  
**Updated on 6/01/2009**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**  
**Facility ID 2000220, Release ID EMHB**

MW-12	01/11/08	10.60
	02/26/08	8.92
	06/26/08	8.72
	02/17/09	7.98
	02/24/09	8.00
	03/10/09	8.45
	03/17/09	8.58
	03/27/09	8.75
	04/02/09	8.86
	04/08/09	8.92
	04/15/09	8.40
	05/05/09	8.26
	05/11/09	8.46
	05/20/09	8.21
	05/27/09	8.41
MW-13	01/11/08	9.94
	02/26/08	8.98
	06/26/08	9.83
MW-14	01/11/08	12.34
	02/26/08	12.23
	06/26/08	12.07
	11/18/08	11.15
	12/01/08	11.31
	12/09/08	11.43
	01/27/09	11.41
	02/03/09	11.41
	02/10/09	11.40
	02/17/09	11.38
	02/24/09	11.39
	03/10/09	11.86
	03/17/09	11.98
	03/27/09	12.31
	04/02/09	12.43
	04/08/09	12.52
	04/15/09	12.16
	04/28/09	12.23
	05/05/09	11.81
	05/11/09	11.96
	05/20/09	11.76
	05/27/09	11.82
MW-15	02/26/08	12.51

**Table 4**  
**Historical Depth to Groundwater**  
**Updated on 6/01/2009**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**  
**Facility ID 2000220, Release ID EMHB**

MW-17	02/26/08	14.56
	11/18/08	13.19
	02/17/09	14.17
	05/11/09	14.46
MW-18	02/26/08	18.48
MW-19	10/22/08	14.78
	11/18/08	14.99
	02/17/09	14.67
	05/11/09	16.39
MW-20	10/22/08	15.40
	11/18/08	15.68
	02/17/09	15.86
	05/11/09	16.98
MW-21	10/22/08	10.05
	11/18/08	10.17
	02/17/09	11.00
	05/11/09	11.52
MW-22	10/22/08	12.70
	11/18/08	10.18
	11/24/08	10.28
	02/17/09	13.20
	05/11/09	10.47
MW-23	10/22/08	8.61
	11/18/08	12.93
	11/24/08	13.03
	12/09/08	13.30
	02/17/09	13.28
	03/27/09	14.12
	04/08/09	14.28
	04/15/09	14.33
	04/28/09	14.37
	05/11/09	14.29
	05/20/09	14.19
	05/27/09	14.08
MW-24	10/22/08	9.99
	11/18/08	8.78
	11/24/08	8.88
	02/17/09	9.96
	05/11/09	11.88

**Table 4**  
**Historical Depth to Groundwater**  
**Updated on 6/01/2009**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**  
**Facility ID 2000220, Release ID EMHB**

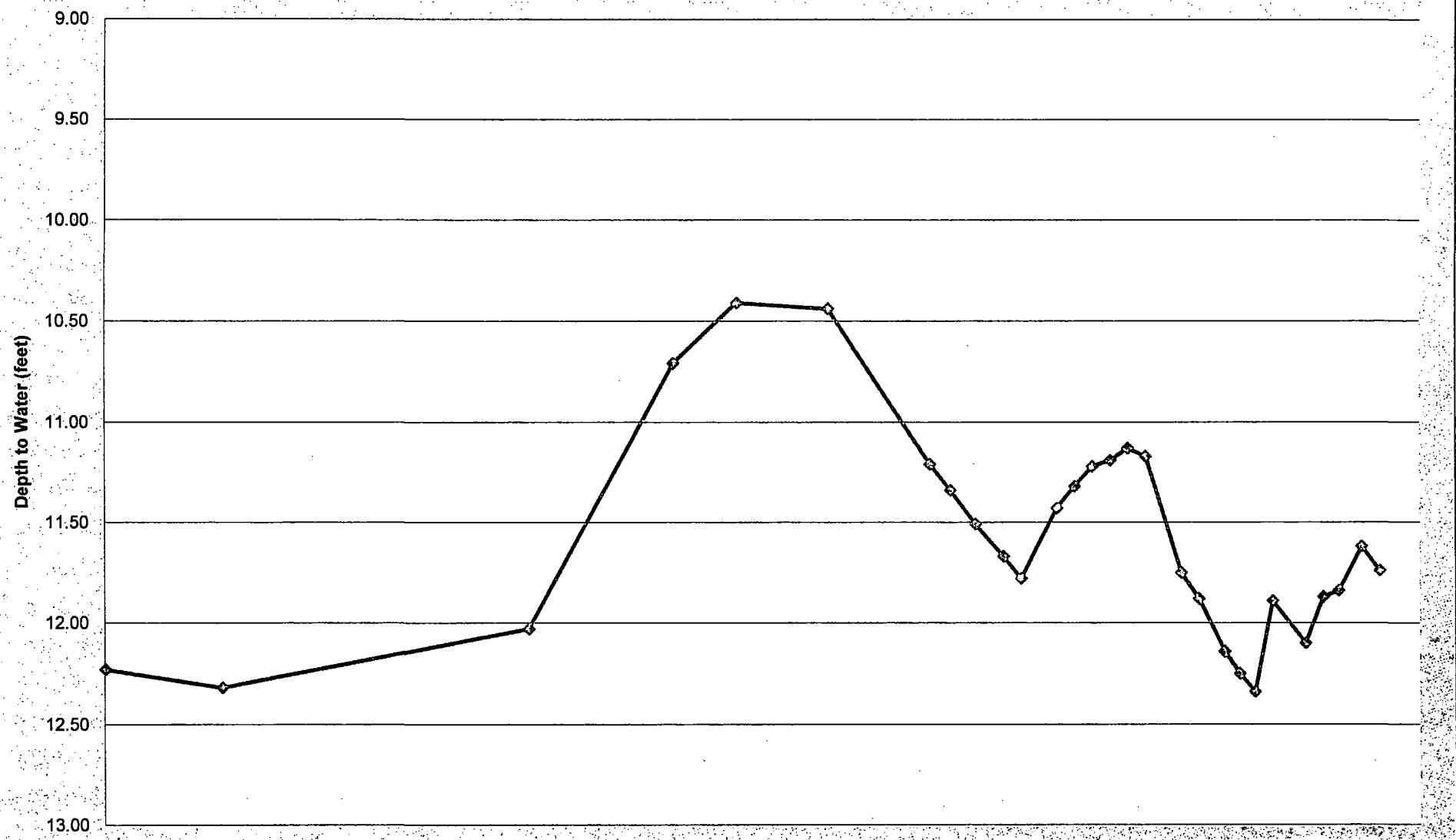
MW-25	10/22/08	14.24
	11/18/08	14.48
	02/17/09	15.16
	05/11/09	16.04
MW-26	10/22/08	12.61
	11/18/08	13.18
	02/17/09	13.94
	05/11/09	14.82
MW-27	10/22/08	12.42
	11/18/08	12.74
	02/17/09	13.65
	05/11/09	14.43
MW-28	10/22/08	13.41
	11/18/08	13.76
	02/17/09	13.47
	05/11/09	15.57
MW-29	10/22/08	13.75
	11/18/08	13.99
	02/17/09	14.07
	05/11/09	15.27
MW-30	10/22/08	10.97
	11/18/08	11.08
	02/17/09	11.31
	05/11/09	11.51
MW-31	10/22/08	10.94
	11/18/08	11.15
	02/17/09	12.33
	05/11/09	13.02
MW32	05/11/09	9.25
MW33	05/11/09	14.95
MW34	05/11/09	17.93
MW35	05/11/09	15.73
MW36	05/11/09	11.76
MW37	05/11/08	16.64

## **APPENDIX B**

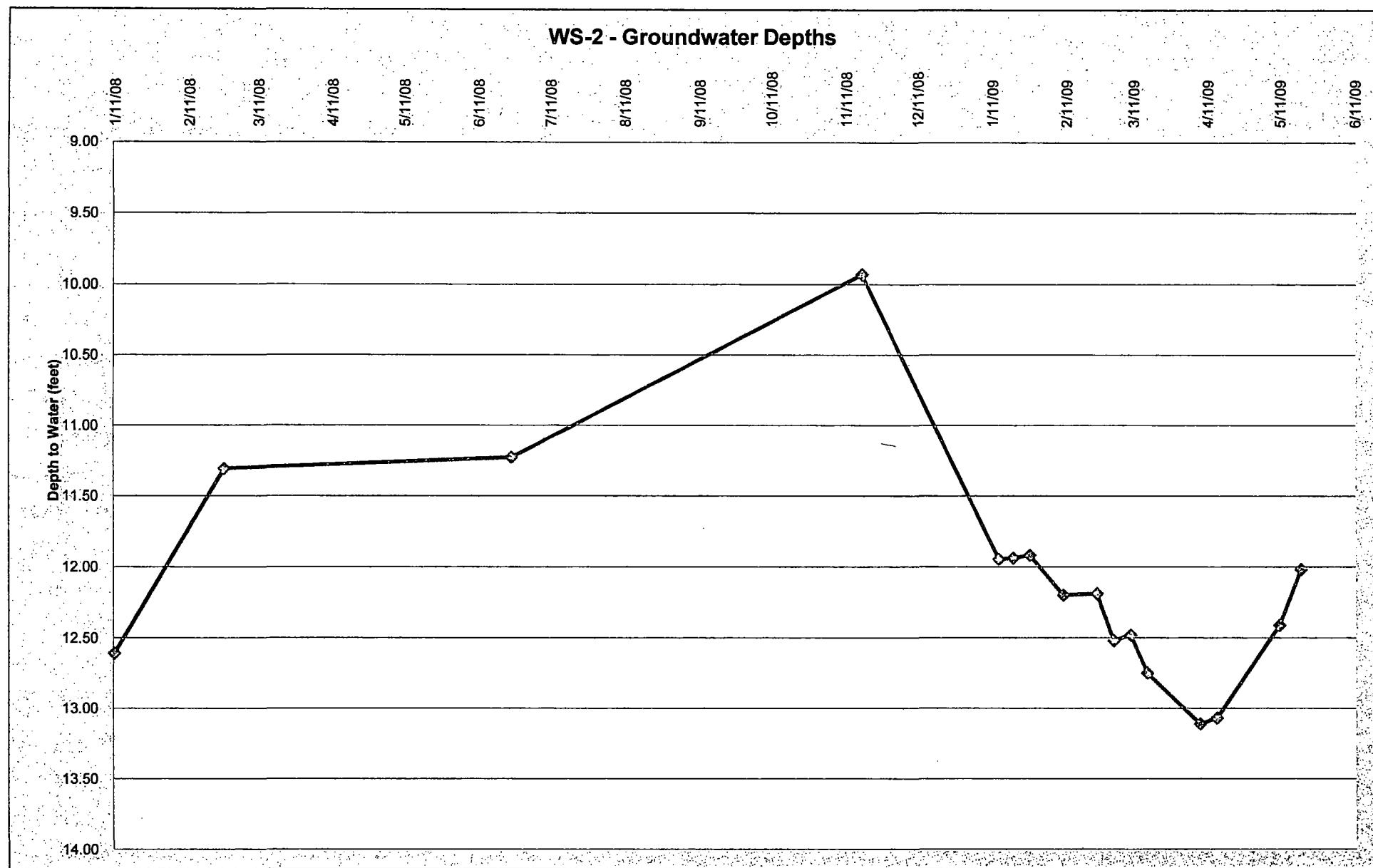
### **HISTORICAL GROUNDWATER DEPTHS GRAPHS**

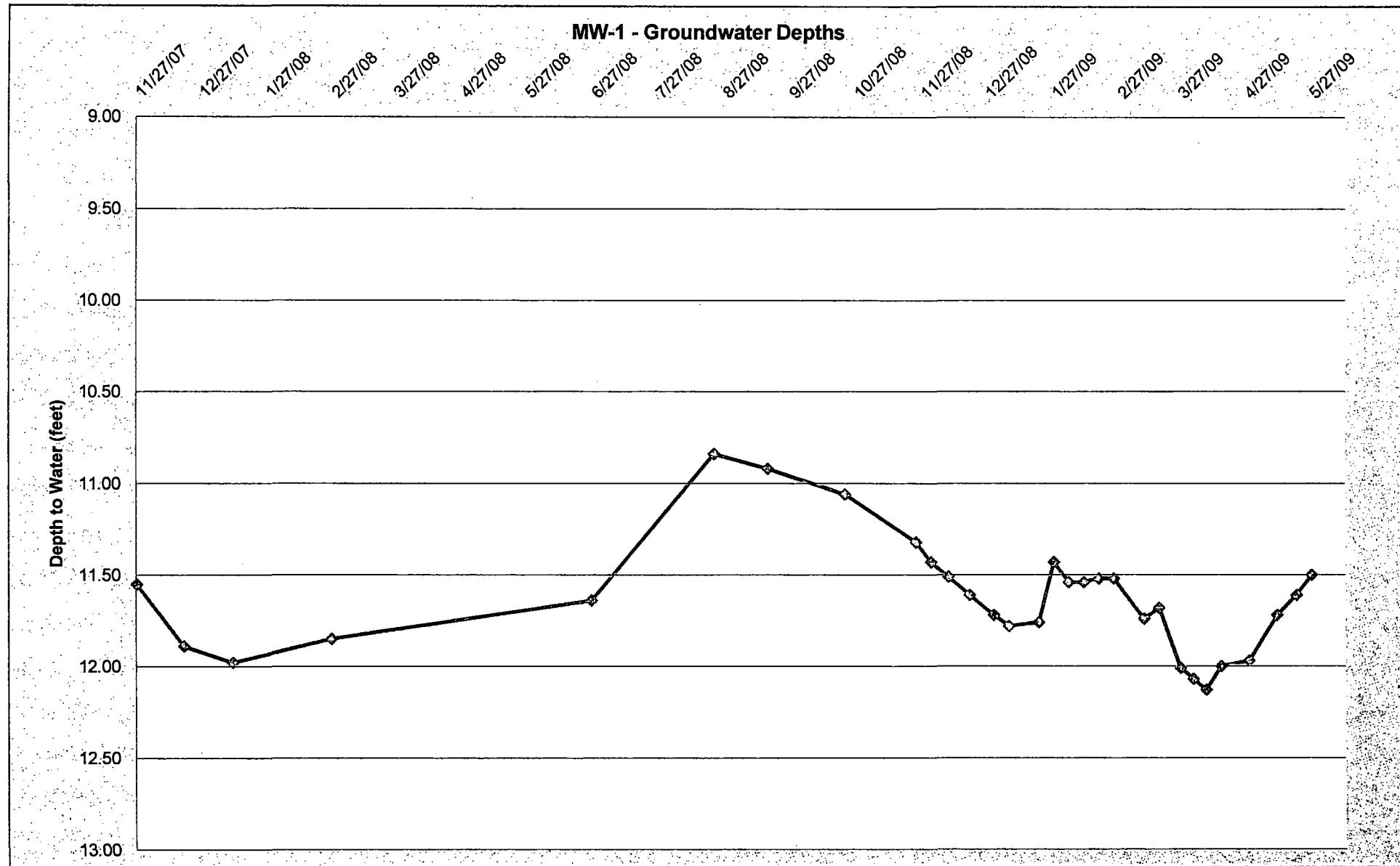
### TW-3 - Groundwater Depths

1/11/08 2/11/08 3/11/08 4/11/08 5/11/08 6/11/08 7/11/08 8/11/08 9/11/08 10/11/08 11/11/08 12/11/08 1/11/09 2/11/09 3/11/09 4/11/09 5/11/09 6/11/09

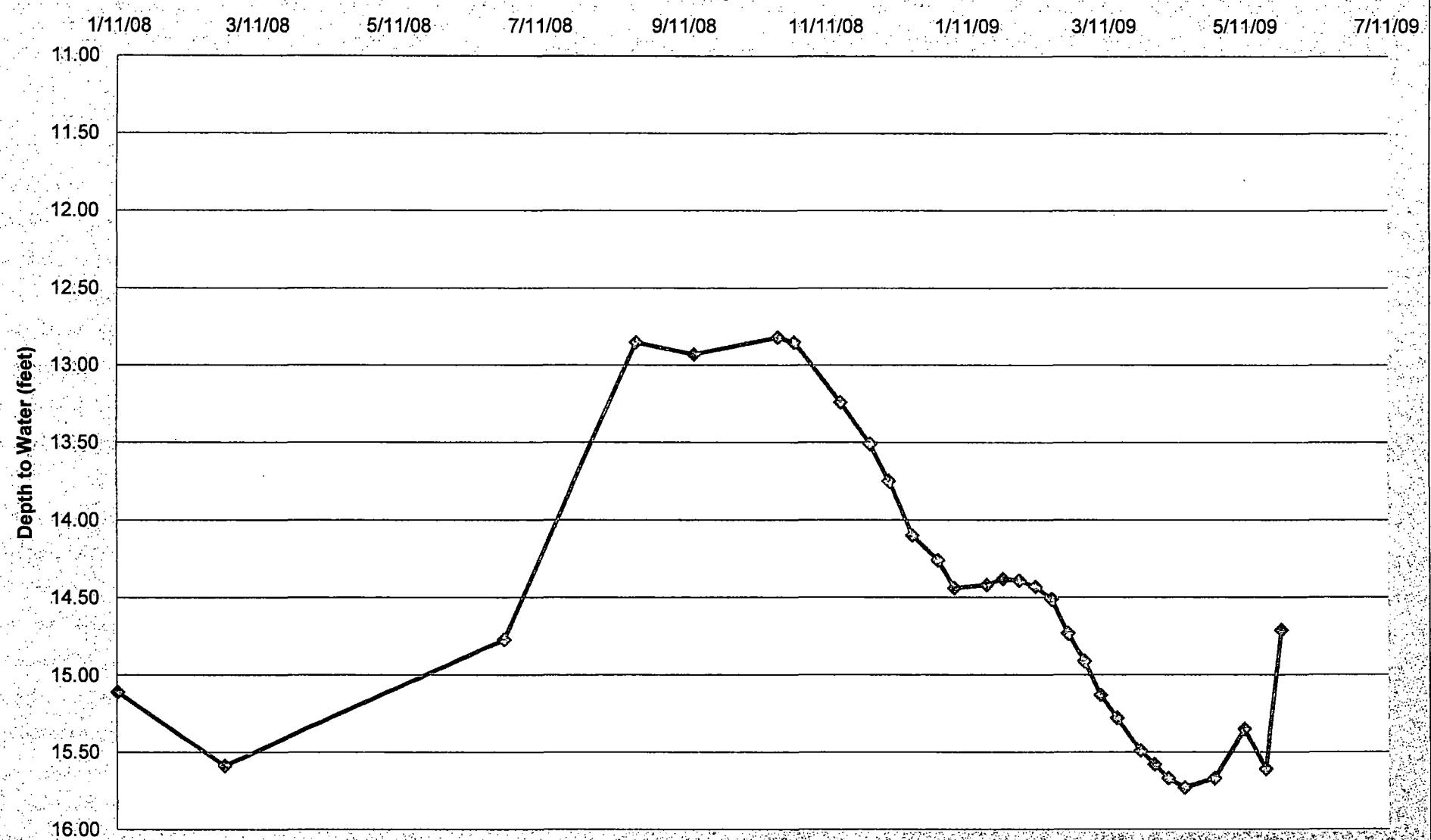


### WS-2 - Groundwater Depths

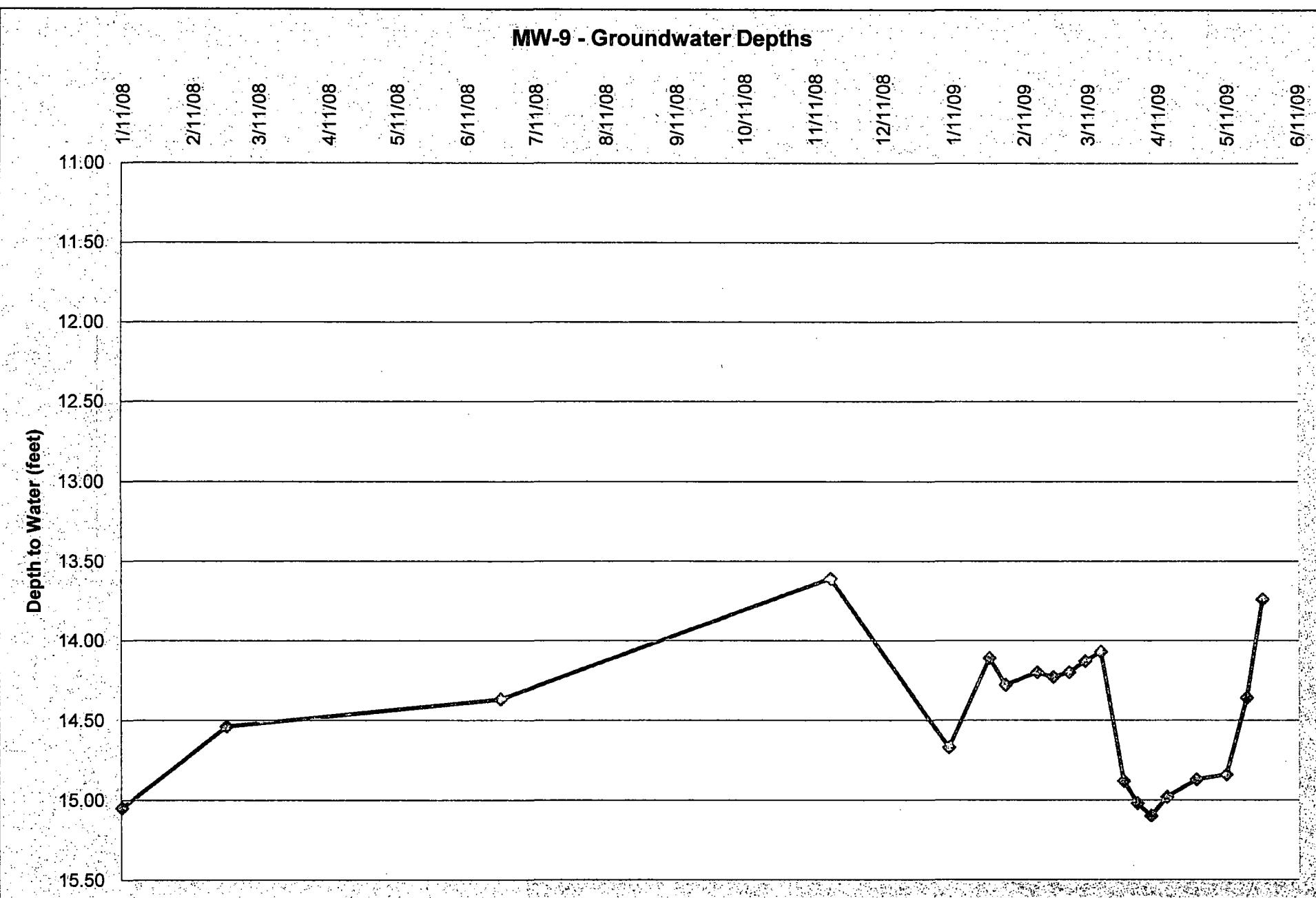




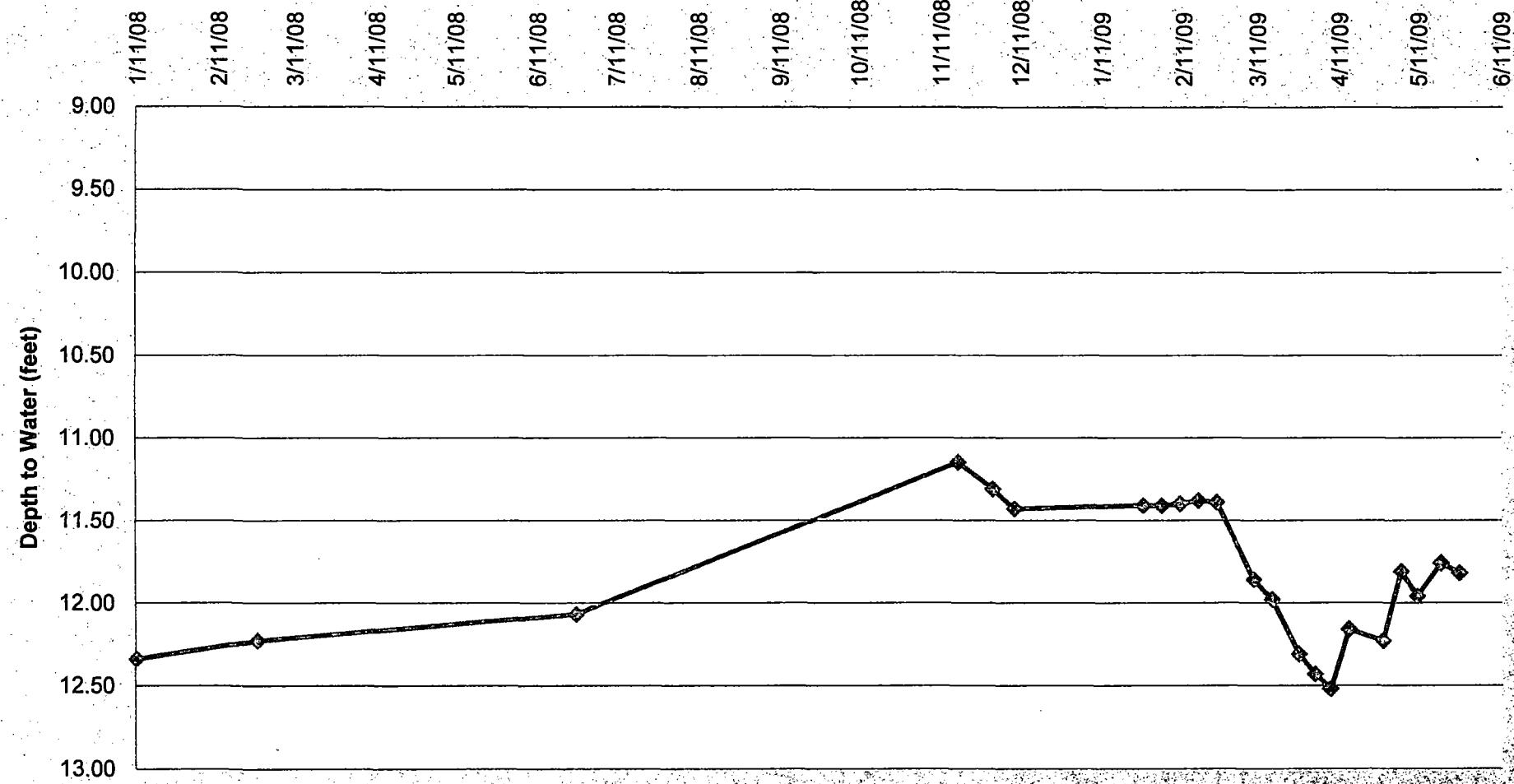
### MW-5 - Groundwater Depths



### MW-9 - Groundwater Depths



### MW-14 - Groundwater Depths



## **APPENDIX C**

### **TABLE 5**

#### **HISTORICAL GROUNDWATER CHEMISTRY**

**Table 5**  
**Historical Groundwater Chemistry**  
**Gunnison Remediation**

Gunnison, Utah

Facility ID 2000220, Release ID EMHB

Sample Identity	Date	TPH-GRO (mg/L) C6-C10	TPH-DRO (mg/L) C11-C15	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	Naphthalene (mg/L)	Depth to Groundwater (ft)
MW1	11/27/07	7.8	0.032	2.8	0.85	0.02	3.8	0.048	11.55
	1/11/08	4.6	<0.020	1.3	0.4	<0.020	1.6	0.051	11.98
	6/26/08	0.082	<0.020	0.029	0.003	<0.002	<0.002	0.039	11.64
MW2	11/27/07	5.9	0.022	2.4	0.96	0.027	2.3	0.037	11.84
	6/26/08	0.46	0.025	0.13	0.0031	0.0028	0.063	0.054	11.99
	11/19/08	0.052	<0.020	0.01	<0.0020	<0.0020	<0.0020	0.0079	11.70
	2/18/09	0.47	<0.020	0.0047	<0.0020	<0.0020	<0.0020	0.0048	11.96
	5/13/09	<0.20	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	12.41
MW3	11/27/07	9.7	0.041	2.6	2.5	0.2	3.9	0.071	11.28
	6/26/08	0.23	0.067	0.012	0.002	<0.002	0.015	0.065	11.40
	11/19/08	<0.020	<0.020	0.001	<0.0020	<0.0020	<0.020	0.0048	11.04
	2/18/09	0.027	<0.020	<0.010	<0.020	<0.020	<0.020	<0.020	11.26
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.50
MW4	11/27/07	<0.020	<0.020	<0.002	<0.020	<0.020	<0.002	<0.002	12.36
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	11.70
MW5	11/27/07	6.3	0.036	4	0.62	0.057	1.0	0.089	NM
	1/11/08	8.2	0.021	4.1	0.88	0.11	0.49	0.15	15.11
	6/26/08	0.73	0.099	0.043	<0.002	0.071	0.023	0.11	14.77
	11/19/08	1	0.260	0.0097	0.0026	0.19	0.0027	0.017	13.24
	2/18/09	4.8	0.130	0.0025	<0.0020	0.2	<0.0020	<0.0020	14.51
	5/12/09	0.084	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	15.35
MW6	6/26/08	0.035	<0.020	<0.002	<0.002	<0.002	0.0034	0.0026	11.62
MW7	1/11/08	3.9	<0.020	1.4	0.32	<0.020	1.5	<0.020	12.55
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	11.91
MW8	1/11/08	4.7	0.020	0.9	0.21	<0.0020	1.8	0.081	12.95
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	12.04

**Table 5**  
**Historical Groundwater Chemistry**  
**Gunnison Remediation**

Gunnison, Utah

Facility ID 2000220, Release ID EMHB

Sample Identity	Date	TPH-GRO (mg/L) C6-C10	TPH-DRO (mg/L) C11-C15	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	Naphthalene (mg/L)	Depth to Groundwater (ft)
MW9	1/11/08	<0.020	<0.020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	15.05
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	14.37
	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	13.61
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.20
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.84
MW10		---	---	---	---	---	---	---	Dry
MW11	1/11/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	10.08
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	10.35
MW12	1/11/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	10.60
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	8.72
MW13	1/11/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	9.94
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	9.83
MW14	1/11/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	12.34
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	12.07
	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.15
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.38
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.96
MW15	2/27/08	1.1	<0.020	0.49	0.039	<0.0020	0.45	0.0043	12.51
	6/26/08*	---	---	---	---	---	---	---	---
MW16	---	---	---	---	---	---	---	---	Dry
MW17	2/27/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.56
	6/26/08	0.22	<0.020	0.089	<0.002	<0.002	0.024	0.0056	NM
	11/18/08	0.56	<0.020	0.28	0.0023	<0.0020	0.0034	0.0082	13.19
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.17
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.46
MW18	6/26/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	NM

**Table 5**  
**Historical Groundwater Chemistry**  
**Gunnison Remediation**

Gunnison, Utah

Facility ID 2000220, Release ID EMHB

Sample Identity	Date	TPH-GRO (mg/L) C6-C10	TPH-DRO (mg/L) C11-C15	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	Naphthalene (mg/L)	Depth to Groundwater (ft)
MW19	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.99
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.67
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	16.39
MW20	11/18/08	4.1	0.130	2.7	0.014	0.21	0.6	0.18	15.68
	2/19/09	14	0.170	2.6	0.068	0.6	0.72	0.16	15.86
	5/13/09	3	0.084	1.4	0.026	0.25	0.056	0.18	16.98
MW21	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	10.17
	2/19/09	<0.020	<0.020	<0.0010	0.0025	<0.0020	<0.0020	<0.0020	11.00
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.52
MW22	11/18/08	1.2	0.044	0.42	0.013	<0.0020	0.0034	0.11	10.18
	2/19/09	2.3	0.034	0.21	0.0069	0.003	0.004	0.0094	13.20
	5/13/09	0.42	<0.020	0.24	0.0035	<0.0020	<0.0020	<0.0020	10.47
MW23	11/18/08	11	<1.0	1.2	0.4	0.9	2.1	0.22	12.93
	2/19/09	16	<0.40	1.3	0.091	1.6	2.9	0.49	13.28
	5/12/09	2.7	<0.20	0.47	0.046	0.72	0.78	0.063	14.29
MW24	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	8.78
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	9.96
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.88
MW25	11/18/08	2	0.380	0.42	0.021	0.24	0.29	0.17	14.48
	2/19/09	13	0.220	0.19	0.012	0.28	0.25	0.12	15.16
	5/12/09	0.61	0.028	0.031	<0.0020	0.033	0.0052	0.044	16.04
MW26	11/18/08	4.9	<0.40	1.1	0.044	0.19	0.27	0.061	13.18
	2/19/09	9.9	0.570	1.2	0.064	0.71	1	0.62	13.94
	5/12/09	1.9	0.130	0.38	0.015	0.2	0.087	0.076	14.82

**Table 5**  
**Historical Groundwater Chemistry**  
**Gunnison Remediation**

Gunnison, Utah

Facility ID 2000220, Release ID EMHB

Sample Identity	Date	TPH-GRO (mg/L) C6-C10	TPH-DRO (mg/L) C11-C15	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	Naphthalene (mg/L)	Depth to Groundwater (ft)
MW27	11/18/08	94	<2.0	26	36	2.9	16	0.26	12.74
	2/19/09	100	<4.0	35	41	3.2	21	<0.40	13.65
	5/12/09	44	<0.40	13	18	1.0	7.8	0.2	14.43
MW28	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	13.76
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	13.47
	5/12/09	<0.020	<0.020	0.0036	<0.0020	<0.0020	<0.0020	<0.0020	15.57
MW29	11/18/08	20	<0.20	0.1	<0.020	0.56	2.7	0.28	13.99
	2/19/09	11	0.410	0.022	<0.020	0.24	0.55	0.22	14.07
	5/13/09	2.1	0.220	<0.010	<0.020	0.076	0.13	0.094	15.27
MW30	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.08
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.002	<0.0020	11.31
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.51
MW31	11/18/08	<0.020	<0.020	<0.0010	<0.0020	0.0027	0.0056	0.0034	11.15
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	12.33
	5/13/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	13.02
MW32	5/13/09	<0.020	<0.020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	9.25
MW33	5/13/09	<0.020	<0.020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	14.95
MW34	5/13/09	<0.020	<0.020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	17.93
MW35	5/12/09	<0.020	<0.020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	15.73
MW36	5/13/09	0.047	<0.020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	11.76
MW37	5/13/08	2.3	0.064	0.67	0.011	0.13	0.0027	0.11	16.64
TW-1	11/27/07	8.6	0.041	3	0.96	0.0046	3.9	0.097	16.24
	1/4/08	5.8	<0.020	1.2	0.50	<0.0020	2.4	0.11	NM
	6/26/08	0.081	<0.020	0.0071	<0.002	<0.002	0.027	0.01	12.29
TW-2	6/26/08	0.92	0.092	0.038	0.0068	<0.002	0.44	0.056	12.76

**Table 5**  
**Historical Groundwater Chemistry**  
**Gunnison Remediation**

Gunnison, Utah

Facility ID 2000220, Release ID EMHB

Sample Identity	Date	TPH-GRO (mg/L) C6-C10	TPH-DRO (mg/L) C11-C15	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	Naphthalene (mg/L)	Depth to Groundwater (ft)
TW-3	11/27/07	1.6	<0.020	0.42	0.16	<0.020	0.62	0.032	NM
	1/4/08	0.56	<0.020	0.059	0.0093	<0.002	0.25	0.019	NM
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	12.03
TW-4	1/11/08	27	0.110	6	3.8	0.6	6.4	0.26	17.93
	6/26/08	50	0.930	4.3	11	3.3	27	1.3	15.95
TW-6	6/26/08	27	0.930	0.6	2.9	1.7	18	1.1	13.46
WS-1	8/14/2007	0.12	NS	0.018	0.0071	<0.0020	0.0022	<0.0020	NM
	12/13/2007	19	0.200	2.4	2.2	0.6	3.7	0.17	NM
	1/11/2008	37	<0.200	5.7	3.2	1.1	5.6	0.23	13.19
	6/25/2008	12	<0.020	2.2	3.6	0.32	4.9	0.12	11.62
WS-2	8/14/2007	<0.020	NS	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	NM
	12/13/2007	7	0.025	2.1	1.9	0.14	0.96	0.02	NM
	1/11/2008	0.088	<0.020	0.058	0.011	0.012	0.043	0.0021	12.61
	6/25/2008	7.4	<0.020	3.8	0.41	0.23	2.5	<0.02	11.23
	11/19/2008	3.1	0.082	0.39	0.21	0.11	0.32	0.063	9.93
	2/19/2009	12	0.073	0.82	0.58	0.19	0.85	0.077	12.19
	5/12/2009	18	<.40	2.4	3.3	1.5	7	0.97	12.41
WS-3	12/13/2007	6.9	0.500	0.12	<0.020	0.28	<0.020	0.1	NM
	1/11/2008	9.2	<0.020	0.22	<0.020	0.38	0.049	0.084	10.50
	6/25/2008	0.25	0.077	0.081	<0.002	0.017	0.0073	<0.002	10.21
<b>INITIAL SCREENING</b>		<b>1</b>	<b>1</b>	<b>0.005</b>	<b>1</b>	<b>0.7</b>	<b>10</b>	<b>0.7</b>	

TPH (GRO) = Total Petroleum Hydrocarbons (Gasoline Range C6 to C10)

TPH (DRO) = Total Petroleum Hydrocarbons (Diesel Range C11 to C15)

< = Concentrations less than the given instrument detection level

SHADED = Measured concentration exceeds Utah Initial Screening Level

\* Note: MW15 could not be located

\* Note: MW10 was dry

NS - Not Sampled

NM - Not Measured

## **APPENDIX D**

### **WELL LOGS**

#### **NEW MONITORING WELLS**

DATE DRILLED: April 28, 2009				Well Construction	Water Level	Depth (Feet)	Sampler	Blows/Foot	OVM (PPM)						
LOGGED BY: Troy J. Smith															
REFERENCE ELEVATION: ---															
DRILL RIG: 8-inch Auger															
TOTAL DEPTH: 20'															
DEPTH TO GROUNDWATER: 9.39'															
DESCRIPTION AND CLASSIFICATION															
Description and Remarks	Color	Consist.	Soil Type												
Rubble from previous building including large pieces of yellow faceted sandstone like front facade of bank at present						1			Cement						
Sandy SILT - gravel component, moist, no odor	Yellow Brown	Medium Dense	ML			2			Bentonite						
						3			Sch. 40 PVC Blank						
						4									
				X		5		0.4							
						6									
						7									
						8									
						9			0.020 in. Colorado Silica Sand						
						10									
					X	11	40/6"	0.1							
						12			0.020 in. Slot Schedule 40 PVC Screen						
Clayey SILT - moist, no odor	Red	Dense	ML			13									
Clayey SILT - moist, no odor	Red Brown	Dense	ML			14									
Clayey SILTSTONE - slightly moist, no odor	Red	Dense	ML			15									
Bottom of Boring = 20' PID: 11.2 ppm (in-hole)						16									
						17									
						18									
						19									
						20									
						21									
WELL LOG															
C-4 Top Stop Gunnison, Utah															
PROJECT NO.: 1241-026A					WELL NO.: MW-32										



Environmental Science and Engineering

DATE DRILLED: April 27, 2009				Well Construction	Water Level	Depth (Feet)	Sampler	Blows/Foot	OVM (PPM)						
LOGGED BY: Troy J. Smith															
REFERENCE ELEVATION: ---															
DRILL RIG: 8-inch Auger															
TOTAL DEPTH: 27'															
DEPTH TO GROUNDWATER: 15.01' (No water encountered ATD)															
DESCRIPTION AND CLASSIFICATION															
Description and Remarks	Color	Consist.	Soil Type												
Silty SAND - fine-grained, slightly moist, no odor	Red	Medium Dense	SM			1				Cement					
						2				Sch. 40 PVC Blank					
						3				0.020 in. Colorado Silica Sand					
						4									
						5	X		0.0						
						6									
						7									
						8				Bentonite					
						9									
						10	X	57	0.4						
						11									
						12									
						13									
						14									
						15	X	74 4"	0.0						
						16				0.020 in. Colorado Silica Sand					
						17									
						18									
						19									
						20				0.020 in. Slot Schedule 40 PVC Screen					



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#### WELL LOG

C-4 Top Stop  
Gunnison, Utah

PROJECT NO.: 1241-026A

WELL NO.: MW-33

DATE DRILLED:	April 27, 2009			Well Construction	
LOGGED BY:	Troy J. Smith				
REFERENCE ELEVATION:	---				
DRILL RIG:	8-inch Auger				
TOTAL DEPTH:	27'				
DEPTH TO GROUNDWATER:	15.01' (No water encountered ATD)				
DESCRIPTION AND CLASSIFICATION					
Description and Remarks	Color	Consist.	Soil Type	Depth (Feet)	
No sample could be obtained. Sampler could not penetrate hardpan.				21	
Sampler could not penetrate 2nd hardpan layer Refusal at 27' PID: 97 ppm (in hole)				22	
				23	
				24	
				25	
				26	
				27	
				28	
				29	
				30	
				31	
				32	
				33	
				34	
				35	
				36	
				37	
				38	
				39	
				40	



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#### WELL LOG

*C-4 Top Stop  
Gunnison, Utah*

PROJECT NO.: 1241-026A

WELL NO.: MW-33

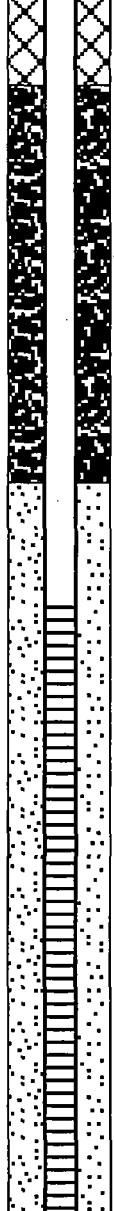
DATE DRILLED:	April 27, 2009			Well Construction	
LOGGED BY:	Troy J. Smith				
REFERENCE ELEVATION:	---				
DRILL RIG:	8-inch Auger				
TOTAL DEPTH:	19.5'				
DEPTH TO GROUNDWATER:	18.23'				
DESCRIPTION AND CLASSIFICATION					
Description and Remarks	Color	Consist.	Soil Type	Depth (Feet)	
Silty SAND - some gravel, slightly moist, no odor	Red	Medium Dense	SW	1	
				2	
				3	
				4	
				5	
				6	
				7	
				8	
				9	
				10	
Silty SAND and GRAVEL	Red	Dense	GM	11	
				12	
				13	
				14	
Silty Sandy GRAVEL - moist, no odor, slight caking of silt portion, small amount of balled clay	Red	Dense	GM	15	
				16	
				17	
				18	
Bottom of Boring = 19.5'				19	
PID: 3.5 ppm (in hole)				20	
WELL LOG					
C-4 Top Stop Gunnison, Utah					
PROJECT NO.: 1241-026A			WELL NO.: MW-34		



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#### WELL LOG

C-4 Top Stop  
Gunnison, Utah

DATE DRILLED:	April 28, 2009			 <b>Well Construction</b>	
LOGGED BY:	Troy J. Smith				
REFERENCE ELEVATION:	---				
DRILL RIG:	8-inch Auger				
TOTAL DEPTH:	20'				
DEPTH TO GROUNDWATER:	15.88'				
DESCRIPTION AND CLASSIFICATION					
Description and Remarks	Color	Consist.	Soil Type	Depth (Feet)	
Gravely FILL - moist, no odor	Red	Medium Dense	GM	1	
				2	
				3	
				4	
				5	
				6	
				7	
				8	
				9	
				10	
Gravely FILL - with cobbles, boulders, moist, no odor	Red	Dense	GM	11	
				12	
				13	
				14	
Silty SAND and GRAVEL - very moist, no odor	Red	Dense	GM	15	
				16	
				17	
				18	
Bottom of Boring = 20'				19	
PID: 0.23 ppm (in-hole)				20	
				21	
WELL LOG					
C-4 Top Stop Gunnison, Utah					
<b>PROJECT NO.:</b> 1241-026A			<b>WELL NO.:</b> MW-35		



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#### WELL LOG

**C-4 Top Stop**  
**Gunnison, Utah**



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WELL LOG

**C-4 Top Stop  
Gunnison, Utah**

**PROJECT NO.: 1241-026A**

**WELL NO.: MW-36**

DATE DRILLED:	April 28, 2009			Well Construction	
LOGGED BY:	Troy J. Smith				
REFERENCE ELEVATION:	---				
DRILL RIG:	8-inch Auger				
TOTAL DEPTH:	20'				
DEPTH TO GROUNDWATER:	15.61'				
DESCRIPTION AND CLASSIFICATION					
Description and Remarks	Color	Consist.	Soil Type	Depth (Feet)	
Sandy SILT - moist, no odor	Red Brown	Dense	ML	1	
				2	
				3	
				4	
				5	
				6	
				7	
				8	
				9	
				10	
				11	
				12	
				13	
				14	
				15	
				16	
				17	
				18	
				19	
				20	
				21	
				22	
WELL LOG					
C-4 Top Stop Gunnison, Utah					
PROJECT NO.: 1241-026A			WELL NO.: B-37		



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## **APPENDIX E**

### **LABORATORY ANALYSES**

#### **SOIL SAMPLES**

**AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES**

Les Pennington  
Wasatch Environmental  
2410 West California Avenue  
Salt Lake City, UT 84104-

463 West 3600 South  
Salt Lake City, Utah  
84115

TEL: (801) 972-8400

FAX: (801) 972-8459

RE: Gunnison Remediation / 1241-036A

Lab Set ID:0904585

Dear Les Pennington:

American West Analytical Laboratories received 6 sample(s) on 4/29/2009 for the analyses presented in the following report.

All analyses were performed in accordance to The NELAC Institute protocols unless noted otherwise. American West Analytical Laboratories is certified by The NELAC Institute in the following states: Utah, Colorado, Idaho, and Texas. Certification document is available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitaion limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit.

Thank You

Approved by: *D. H. J.*  
Laboratory Director or designee

**A**  
AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

## ORGANIC ANALYTICAL REPORT

Client: Wasatch Environmental Contact: Les Pennington  
Project ID: Gunnison Remediation / 1241-026A  
Lab Sample ID: 0904585-001  
Client Sample ID: MW-32 @ 10'  
Collection Date: 4/28/2009 7:30:00 AM Analyzed: 4/30/2009 4:26:00 PM  
Received Date: 4/29/2009  
Method Used: SW8260C

### Analytical Results

### VOAs MBTEXN/GRO List by GC/MS Method 8260C

463 West 3600 South  
Salt Lake City, Utah  
84115

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.0027	< 0.0027	
Ethylbenzene	100-41-4	0.0055	< 0.0055	
Naphthalene	91-20-3	0.0055	< 0.0055	
Toluene	108-88-3	0.0055	< 0.0055	
Xylenes, Total	1330-20-7	0.0055	< 0.0055	
TPH C6-C10 (GRO)		0.055	< 0.055	
Surr: 1,2-Dichloroethane-d4	17060-07-0	72-139	93.4	
Surr: 4-Bromofluorobenzene	460-00-4	71-144	98.2	
Surr: Dibromofluoromethane	1868-53-7	73-126	97.5	
Surr: Toluene-d8	2037-26-5	72-129	98.9	

*Sampling and analytical preparation performed by method 5030B.*

Jose Rocha  
QA Officer

Report Date: 5/6/2009 Page 2 of 7

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Fax (801) 263-8687

Email: awal@awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## ORGANIC ANALYTICAL REPORT

Client: Wasatch Environmental Contact: Les Pennington  
Project ID: Gunnison Remediation / 1241-026A  
Lab Sample ID: 0904585-002  
Client Sample ID: MW-33 @ 17'  
Collection Date: 4/27/2009 11:00:00 AM Analyzed: 4/30/2009 4:48:00 PM  
Received Date: 4/29/2009  
Method Used: SW8260C

### Analytical Results VOAs MBTEXN/GRO List by GC/MS Method 8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.0028	< 0.0028	
Ethylbenzene	100-41-4	0.0056	< 0.0056	
Naphthalene	91-20-3	0.0056	< 0.0056	
Toluene	108-88-3	0.0056	< 0.0056	
Xylenes, Total	1330-20-7	0.0056	< 0.0056	
TPH C6-C10 (GRO)		0.056	< 0.056	
Surr: 1,2-Dichloroethane-d4	17060-07-0	72-139	101	
Surr: 4-Bromofluorobenzene	460-00-4	71-144	98.4	
Surr: Dibromofluoromethane	1868-53-7	73-126	100	
Surr: Toluene-d8	2037-26-5	72-129	97.0	

*Sampling and analytical preparation performed by method 5030B.*

Report Date: 5/6/2009 Page 3 of 7

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## ORGANIC ANALYTICAL REPORT

AMERICAN  
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LABORATORIES

463 West 3600 South  
Salt Lake City, Utah  
84115

Client: Wasatch Environmental Contact: Les Pennington  
Project ID: Gunnison Remediation / 1241-026A  
Lab Sample ID: 0904585-003  
Client Sample ID: MW-34 @ 20'  
Collection Date: 4/27/2009 6:00:00 PM Analyzed: 4/30/2009 5:10:00 PM  
Received Date: 4/29/2009  
Method Used: SW8260C

### Analytical Results VOAs MBTEXN/GRO List by GC/MS Method 8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.0031	< 0.0031	
Ethylbenzene	100-41-4	0.0061	< 0.0061	
Naphthalene	91-20-3	0.0061	< 0.0061	
Toluene	108-88-3	0.0061	< 0.0061	
Xylenes, Total	1330-20-7	0.0061	< 0.0061	
TPH C6-C10 (GRO)		0.061	< 0.061	
Surr: 1,2-Dichloroethane-d4	17060-07-0	72-139	99.0	
Surr: 4-Bromofluorobenzene	460-00-4	71-144	98.0	
Surr: Dibromofluoromethane	1868-53-7	73-126	98.7	
Surr: Toluene-d8	2037-26-5	72-129	98.3	

*Sampling and analytical preparation performed by method 5030B.*

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Report Date: 5/6/2009 Page 4 of 7

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LABORATORIES

## ORGANIC ANALYTICAL REPORT

Client: Wasatch Environmental Contact: Les Pennington  
Project ID: Gunnison Remediation / 1241-026A  
Lab Sample ID: 0904585-004  
Client Sample ID: MW-35 @ 15'  
Collection Date: 4/28/2009 11:30:00 AM Analyzed: 4/30/2009 5:31:00 PM  
Received Date: 4/29/2009  
Method Used: SW8260C

### Analytical Results

### VOAs MBTEXN/GRO List by GC/MS Method 8260C

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.0029	< 0.0029	
Ethylbenzene	100-41-4	0.0058	< 0.0058	
Naphthalene	91-20-3	0.0058	< 0.0058	
Toluene	108-88-3	0.0058	< 0.0058	
Xylenes, Total	1330-20-7	0.0058	< 0.0058	
TPH C6-C10 (GRO)		0.058	< 0.058	
Surr: 1,2-Dichloroethane-d4	17060-07-0	72-139	101	
Surr: 4-Bromofluorobenzene	460-00-4	71-144	95.4	
Surr: Dibromofluoromethane	1868-53-7	73-126	101	
Surr: Toluene-d8	2037-26-5	72-129	96.2	

*Sampling and analytical preparation performed by method 5030B.*

Report Date: 5/6/2009 Page 5 of 7

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## **ORGANIC ANALYTICAL REPORT**

**Client:** Wasatch Environmental      **Contact:** Les Pennington  
**Project ID:** Gunnison Remediation / 1241-026A  
**Lab Sample ID:** 0904585-005  
**Client Sample ID:** MW-36 @ 15'  
**Collection Date:** 4/28/2009 8:20:00 AM      **Analyzed:** 4/30/2009 5:53:00 PM  
**Received Date:** 4/29/2009  
**Method Used:** SW8260C

### **Analytical Results**

### **VOAs MBTEXN/GRO List by GC/MS Method 8260C**

<b>Compound</b>	<b>CAS Number</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Benzene	71-43-2	0.0030	< 0.0030	
Ethylbenzene	100-41-4	0.0059	< 0.0059	
Naphthalene	91-20-3	0.0059	< 0.0059	
Toluene	108-88-3	0.0059	< 0.0059	
Xylenes, Total	1330-20-7	0.0059	< 0.0059	
TPH C6-C10 (GRO)		0.059	< 0.059	
Surr: 1,2-Dichloroethane-d4	17060-07-0	72-139	101	
Surr: 4-Bromofluorobenzene	460-00-4	71-144	96.4	
Surr: Dibromofluoromethane	1868-53-7	73-126	99.9	
Surr: Toluene-d8	2037-26-5	72-129	97.4	

*Sampling and analytical preparation performed by method 5030B.*

Report Date: 5/6/2009 Page 6 of 7

**A**  
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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## ORGANIC ANALYTICAL REPORT

Client: Wasatch Environmental Contact: Les Pennington  
Project ID: Gunnison Remediation / 1241-026A  
Lab Sample ID: 0904585-006  
Client Sample ID: MW-37 @ 15'  
Collection Date: 4/28/2009 2:25:00 PM Analyzed: 4/30/2009 6:15:00 PM  
Received Date: 4/29/2009  
Method Used: SW8260C

### Analytical Results

### VOAs MBTEXN/GRO List by GC/MS Method 8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.0028	< 0.0028	
Ethylbenzene	100-41-4	0.0055	< 0.0055	
Naphthalene	91-20-3	0.0055	< 0.0055	
Toluene	108-88-3	0.0055	< 0.0055	
Xylenes, Total	1330-20-7	0.0055	< 0.0055	
TPH C6-C10 (GRO)		0.055	< 0.055	
Surr: 1,2-Dichloroethane-d4	17060-07-0	72-139	98.6	
Surr: 4-Bromofluorobenzene	460-00-4	71-144	106	
Surr: Dibromofluoromethane	1868-53-7	73-126	100	
Surr: Toluene-d8	2037-26-5	72-129	100	

*Sampling and analytical preparation performed by method 5030B.*

# American West Analytical Laboratories

## WORK ORDER Summary

29-Apr-09

Work Order: 0904585  
WO Type: Standard

Client ID: WAS580  
Contact: Les Pennington  
Project: Gunnison Remediation / 1241-026A.  
Comments: PA Rush

QC Level: LEVEL 1

Reviewed by on

HOK-DRS/P

Sample ID	Client Sample ID	Date Collected	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL	Sub	Storage
0904585-001A	MW-32 @ 10'	4/28/2009 7:30:00 AM	4/29/2009	5/8/2009	Soil	8260-S-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	voc/share
				5/8/2009		PMOIST	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	voc/share
0904585-002A	MW-33 @ 17'	4/27/2009 11:00:00 AM		5/8/2009		8260-S-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	voc/share
				5/8/2009		PMOIST	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	voc/share
0904585-003A	MW-34 @ 20'	4/27/2009 6:00:00 PM		5/8/2009		8260-S-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	voc/share
				5/8/2009		PMOIST	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	voc/share
0904585-004A	MW-35 @ 15'	4/28/2009 11:30:00 AM		5/8/2009		8260-S-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	voc/share
				5/8/2009		PMOIST	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	voc/share
0904585-005A	MW-36 @ 15'	4/28/2009 8:20:00 AM		5/8/2009		8260-S-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	voc/share
				5/8/2009		PMOIST	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	voc/share
0904585-006A	MW-37 @ 15'	4/28/2009 2:25:00 PM		5/8/2009		8260-S-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	voc/share
				5/8/2009		PMOIST	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	voc/share

Client Wasatch Environmental, Inc.

Address 2410 W California Ave

SLC      UT      84119  
City            State            Zip

Phone 801-972-8400 Fax 801-972-8459

Contact Les Pennington

E-mail lp@wasatch-environmental.com

Project Name Gunnison Remediation

Project Number/P.O.# 1241-026A

Sampler Name Troy J Smith

**APPENDIX F**

**QUARTERLY MONITORING**

**LABORATORY ANALYTICAL RESULTS**

# A

Les Pennington  
**AMERICAN  
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Wasatch Environmental  
2410 West California Avenue  
Salt Lake City, UT 84104-  
TEL: (801) 972-8400  
FAX: (801) 972-8459

RE: Gunnison Remediation / 1241-026A

463 West 3600 South  
Salt Lake City, Utah  
84115

Lab Set ID: 0905244

Dear Les Pennington:

American West Analytical Laboratories received 20 sample(s) on 5/14/2009 for the analyses presented in the following report.

All analyses were performed in accordance to The NELAC Institute protocols unless noted otherwise. American West Analytical Laboratories is certified by The NELAC Institute in the following states: Utah, Colorado, Idaho, and Texas. Certification document is available upon request. If you have any questions or concerns regarding this report please feel free to call.

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Toll Free (888) 263-8686  
Fax (801) 263-8687  
mail: awal@awal-labs.com

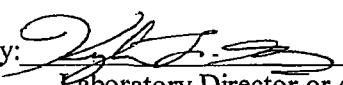
Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitaion limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit.

Thank You

Approved by:

  
Laboratory Director or designee

Report Date: 5/22/2009 Page 1 of 26

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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## **ORGANIC ANALYTICAL REPORT**

**AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES**

**Client:** Wasatch Environmental      **Contact:** Les Pennington  
**Project ID:** Gunnison Remediation / 1241-026A  
**Lab Sample ID:** 0905244-001  
**Client Sample ID:** WS-2  
**Collection Date:** 5/12/2009 5:37:00 PM      **Analyzed:** 5/15/2009 9:28:00 AM  
**Received Date:** 5/14/2009  
**Method Used:** SW8260C

## Analytical Results

VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
OA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual.
Benzene	71-43-2	0.020	2.4	1
Ethylbenzene	100-41-4	0.040	1.5	1
Naphthalene	91-20-3	0.040	0.97	1
Toluene	108-88-3	0.040	3.3	1
Xylenes, Total	1330-20-7	0.040	7.0	1
TPH C11-C15 (DRO)		0.40	< 0.40	
TPH C6-C10 (GRO)		0.40	18	
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	112	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	98.8	
Surr: Dibromofluoromethane	1868-53-7	80-124	96.6	
Surr: Toluene-d8	2037-26-5	80-125	98.2	

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS. The reporting limits were raised due to high analyte concentrations.

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## ORGANIC ANALYTICAL REPORT

**Client:** Wasatch Environmental      **Contact:** Les Pennington  
**Project ID:** Gunnison Remediation / 1241-026A  
**Lab Sample ID:** 0905244-002  
**Client Sample ID:** MW-2  
**Collection Date:** 5/13/2009 1:57:00 PM      **Analyzed:** 5/19/2009 12:57:00 AM  
**Received Date:** 5/14/2009  
**Method Used:** SW8260C

### VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.0010	< 0.0010	
Ethylbenzene	100-41-4	0.0020	< 0.0020	
Naphthalene	91-20-3	0.0020	< 0.0020	
Toluene	108-88-3	0.0020	< 0.0020	
Xylenes, Total	1330-20-7	0.0020	< 0.0020	
TPH C11-C15 (DRO)		0.020	< 0.020	
TPH C6-C10 (GRO)		0.020	< 0.020	
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	114	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	101	
Surr: Dibromofluoromethane	1868-53-7	80-124	96.9	
Surr: Toluene-d8	2037-26-5	80-125	97.8	

Report Date: 5/22/2009 Page 3 of 26

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## ORGANIC ANALYTICAL REPORT

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

**Client:** Wasatch Environmental      **Contact:** Les Pennington  
**Project ID:** Gunnison Remediation / 1241-026A  
**Lab Sample ID:** 0905244-003  
**Client Sample ID:** MW-3  
**Collection Date:** 5/13/2009 2:10:00 PM      **Analyzed:** 5/15/2009 11:37:00 AM  
**Received Date:** 5/14/2009  
**Method Used:** SW8260C

**Analytical Results**      VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.0010	< 0.0010	
Ethylbenzene	100-41-4	0.0020	< 0.0020	
Naphthalene	91-20-3	0.0020	< 0.0020	
Toluene	108-88-3	0.0020	< 0.0020	
Xylenes, Total	1330-20-7	0.0020	< 0.0020	
TPH C11-C15 (DRO)		0.020	< 0.020	
TPH C6-C10 (GRO)		0.020	< 0.020	
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	111	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	104	
Surr: Dibromofluoromethane	1868-53-7	80-124	94.6	
Surr: Toluene-d8	2037-26-5	80-125	99.1	

Report Date: 5/22/2009 Page 4 of 26

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Client: Wasatch Environmental Contact: Les Pennington  
Project ID: Gunnison Remediation / 1241-026A  
Lab Sample ID: 0905244-004  
Client Sample ID: MW-5  
Collection Date: 5/12/2009 5:48:00 PM Analyzed: 5/15/2009 12:02:00 PM  
Received Date: 5/14/2009  
Method Used: SW8260C

**Analytical Results VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C**

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.0010	< 0.0010	
Ethylbenzene	100-41-4	0.0020	< 0.0020	
Naphthalene	91-20-3	0.0020	< 0.0020	
Toluene	108-88-3	0.0020	< 0.0020	
Xylenes, Total	1330-20-7	0.0020	< 0.0020	
TPH C11-C15 (DRO)		0.020	< 0.020	
TPH C6-C10 (GRO)		0.020	0.084	
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	114	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	102	
Surr: Dibromofluoromethane	1868-53-7	80-124	95.3	
Surr: Toluene-d8	2037-26-5	80-125	98.1	

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Email: awal@awal-labs.comKyle F. Gross  
Laboratory DirectorJose Rocha  
QA Officer

Client: Wasatch Environmental Contact: Les Pennington  
Project ID: Gunnison Remediation / 1241-026A  
Lab Sample ID: 0905244-005  
Client Sample ID: MW-9  
Collection Date: 5/13/2009 2:20:00 PM Analyzed: 5/15/2009 12:28:00 PM  
Received Date: 5/14/2009  
Method Used: SW8260C

**Analytical Results VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C**

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.0010	< 0.0010	
Ethylbenzene	100-41-4	0.0020	< 0.0020	
Naphthalene	91-20-3	0.0020	< 0.0020	
Toluene	108-88-3	0.0020	< 0.0020	
Xylenes, Total	1330-20-7	0.0020	< 0.0020	
TPH C11-C15 (DRO)		0.020	< 0.020	
TPH C6-C10 (GRO)		0.020	< 0.020	
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	113	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	103	
Surr: Dibromofluoromethane	1868-53-7	80-124	94.4	
Surr: Toluene-d8	2037-26-5	80-125	99.1	

**A**

## ORGANIC ANALYTICAL REPORT

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Laboratory Director

Jose Rocha  
QA Officer

**Client:** Wasatch Environmental      **Contact:** Les Pennington  
**Project ID:** Gunnison Remediation / 1241-026A  
**Lab Sample ID:** 0905244-006  
**Client Sample ID:** MW-14  
**Collection Date:** 5/13/2009 6:13:00 PM      **Analyzed:** 5/15/2009 12:54:00 PM  
**Received Date:** 5/14/2009  
**Method Used:** SW8260C

### **Analytical Results                          VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C**

<b>Units:</b> mg/L	<b>Dilution Factor:</b> 1	<b>CAS Number</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Benzene		71-43-2	0.0010	< 0.0010	
Ethylbenzene		100-41-4	0.0020	< 0.0020	
Naphthalene		91-20-3	0.0020	< 0.0020	
Toluene		108-88-3	0.0020	< 0.0020	
Xylenes, Total		1330-20-7	0.0020	< 0.0020	
TPH C11-C15 (DRO)			0.020	< 0.020	
TPH C6-C10 (GRO)			0.020	< 0.020	
Surr: 1,2-Dichloroethane-d4		17060-07-0	77-144	113	
Surr: 4-Bromofluorobenzene		460-00-4	80-123	102	
Surr: Dibromofluoromethane		1868-53-7	80-124	94.5	
Surr: Toluene-d8		2037-26-5	80-125	100	

Report Date: 5/22/2009 Page 7 of 26

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Salt Lake City, Utah  
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## ORGANIC ANALYTICAL REPORT

**Client:** Wasatch Environmental      **Contact:** Les Pennington  
**Project ID:** Gunnison Remediation / 1241-026A  
**Lab Sample ID:** 0905244-007  
**Client Sample ID:** MW-17  
**Collection Date:** 5/13/2009 2:30:00 PM      **Analyzed:** 5/15/2009 1:19:00 PM  
**Received Date:** 5/14/2009  
**Method Used:** SW8260C

**Analytical Results**      VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.0010	< 0.0010	
Ethylbenzene	100-41-4	0.0020	< 0.0020	
Naphthalene	91-20-3	0.0020	< 0.0020	
Toluene	108-88-3	0.0020	< 0.0020	
Xylenes, Total	1330-20-7	0.0020	< 0.0020	
TPH C11-C15 (DRO)		0.020	< 0.020	
TPH C6-C10 (GRO)		0.020	< 0.020	
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	114	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	101	
Surr: Dibromofluoromethane	1868-53-7	80-124	95.6	
Surr: Toluene-d8	2037-26-5	80-125	99.3	

Jose Rocha  
QA Officer

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Kyle F. Gross  
Laboratory Director

Report Date: 5/22/2009 Page 8 of 26

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Email: awal@awal-labs.comKyle F. Gross  
Laboratory DirectorJose Rocha  
QA Officer

Client: Wasatch Environmental Contact: Les Pennington  
Project ID: Gunnison Remediation / 1241-026A  
Lab Sample ID: 0905244-008  
Client Sample ID: MW-19  
Collection Date: 5/13/2009 6:20:00 PM Analyzed: 5/15/2009 1:45:00 PM  
Received Date: 5/14/2009  
Method Used: SW8260C

**Analytical Results VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C**

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.0010	< 0.0010	
Ethylbenzene	100-41-4	0.0020	< 0.0020	
Naphthalene	91-20-3	0.0020	< 0.0020	
Toluene	108-88-3	0.0020	< 0.0020	
Xylenes, Total	1330-20-7	0.0020	< 0.0020	
TPH C11-C15 (DRO)		0.020	< 0.020	
TPH C6-C10 (GRO)		0.020	< 0.020	
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	114	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	101	
Surr: Dibromofluoromethane	1868-53-7	80-124	95.1	
Surr: Toluene-d8	2037-26-5	80-125	99.1	

Report Date: 5/22/2009 Page 9 of 26

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## ORGANIC ANALYTICAL REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Wasatch Environmental Contact: Les Pennington  
Project ID: Gunnison Remediation / 1241-026A  
Lab Sample ID: 0905244-009  
Client Sample ID: MW-20  
Collection Date: 5/13/2009 5:55:00 PM Analyzed: 5/15/2009 2:11:00 PM  
Received Date: 5/14/2009  
Method Used: SW8260C

Analytical Results VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C

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Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.010	1.4	D
Ethylbenzene	100-41-4	0.020	0.25	D
Naphthalene	91-20-3	0.020	0.18	D
Toluene	108-88-3	0.0020	0.026	
Xylenes, Total	1330-20-7	0.0020	0.056	
TPH C11-C15 (DRO)		0.020	0.084	
TPH C6-C10 (GRO)		0.020	3.0	
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	115	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	96.0	
Surr: Dibromofluoromethane	1868-53-7	80-124	91.9	
Surr: Toluene-d8	2037-26-5	80-125	93.5	

D - This analyte was obtained from a 1:10 dilution.

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# ORGANIC ANALYTICAL REPORT

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Jose Rocha  
QA Officer

Client: Wasatch Environmental Contact: Les Pennington  
 Project ID: Gunnison Remediation / 1241-026A  
 Lab Sample ID: 0905244-010  
 Client Sample ID: MW-21  
 Collection Date: 5/13/2009 5:38:00 PM Analyzed: 5/19/2009 1:23:00 AM  
 Received Date: 5/14/2009  
 Method Used: SW8260C

## Analytical Results VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.0010	< 0.0010	
Ethylbenzene	100-41-4	0.0020	< 0.0020	
Naphthalene	91-20-3	0.0020	< 0.0020	
Toluene	108-88-3	0.0020	< 0.0020	
Xylenes, Total	1330-20-7	0.0020	< 0.0020	
TPH C11-C15 (DRO)		0.020	< 0.020	
TPH C6-C10 (GRO)		0.020	< 0.020	
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	114	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	100	
Surr: Dibromofluoromethane	1868-53-7	80-124	96.1	
Surr: Toluene-d8	2037-26-5	80-125	96.7	

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**Client:** Wasatch Environmental      **Contact:** Les Pennington  
**Project ID:** Gunnison Remediation / 1241-026A  
**Lab Sample ID:** 0905244-011  
**Client Sample ID:** MW-22  
**Collection Date:** 5/13/2009 10:07:00 AM      **Analyzed:** 5/19/2009 11:54:00 PM  
**Received Date:** 5/14/2009  
**Method Used:** SW8260C

**Analytical Results**      VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C

Units: mg/L	CAS Number	Reporting Limit	Analytical Result	Qual
Dilution Factor: 1				
<b>Compound</b>				
Benzene	71-43-2	0.0010	0.24	
Ethylbenzene	100-41-4	0.0020	< 0.0020	
Naphthalene	91-20-3	0.0020	< 0.0020	
Toluene	108-88-3	0.0020	0.0035	
Xylenes, Total	1330-20-7	0.0020	< 0.0020	
TPH C11-C15 (DRO)		0.020	< 0.020	
TPH C6-C10 (GRO)		0.020	0.42	
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	110	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	102	
Surr: Dibromofluoromethane	1868-53-7	80-124	96.6	
Surr: Toluene-d8	2037-26-5	80-125	101	

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Jose Rocha  
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**Client:** Wasatch Environmental      **Contact:** Les Pennington  
**Project ID:** Gunnison Remediation / 1241-026A  
**Lab Sample ID:** 0905244-012  
**Client Sample ID:** MW-23  
**Collection Date:** 5/12/2009 6:40:00 PM      **Analyzed:** 5/19/2009 8:14:00 PM  
**Received Date:** 5/14/2009  
**Method Used:** SW8260C

**Analytical Results**      VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.010	0.47	
Ethylbenzene	100-41-4	0.020	0.72	
Naphthalene	91-20-3	0.020	0.063	
Toluene	108-88-3	0.020	0.046	
Xylenes, Total	1330-20-7	0.020	0.78	
TPH C11-C15 (DRO)		0.20	< 0.20	
TPH C6-C10 (GRO)		0.20	2.7	
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	112	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	106	
Surr: Dibromofluoromethane	1868-53-7	80-124	96.9	
Surr: Toluene-d8	2037-26-5	80-125	99.8	

*The reporting limits were raised due to high analyte concentrations.*

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Laboratory Director

Jose Rocha  
QA Officer

<b>Client:</b>	Wasatch Environmental	<b>Contact:</b>	Les Pennington
<b>Project ID:</b>	Gunnison Remediation / 1241-026A		
<b>Lab Sample ID:</b>	0905244-013		
<b>Client Sample ID:</b>	MW-24		
<b>Collection Date:</b>	5/13/2009 10:22:00 AM	<b>Analyzed:</b>	5/19/2009 1:49:00 AM
<b>Received Date:</b>	5/14/2009		
<b>Method Used:</b>	SW8260C		

### **Analytical Results    VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C**

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.0010	< 0.0010	
Ethylbenzene	100-41-4	0.0020	< 0.0020	
Naphthalene	91-20-3	0.0020	< 0.0020	
Toluene	108-88-3	0.0020	< 0.0020	
Xylenes, Total	1330-20-7	0.0020	< 0.0020	
TPH C11-C15 (DRO)		0.020	< 0.020	
TPH C6-C10 (GRO)		0.020	< 0.020	
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	114	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	101	
Surr: Dibromofluoromethane	1868-53-7	80-124	96.4	
Surr: Toluene-d8	2037-26-5	80-125	97.0	

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**Client:** Wasatch Environmental      **Contact:** Les Pennington  
**Project ID:** Gunnison Remediation / 1241-026A  
**Lab Sample ID:** 0905244-014  
**Client Sample ID:** MW-25  
**Collection Date:** 5/12/2009 6:19:00 PM      **Analyzed:** 5/15/2009 4:19:00 PM  
**Received Date:** 5/14/2009  
**Method Used:** SW8260C

### Analytical Results

VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.0010	0.031	
Ethylbenzene	100-41-4	0.0020	0.033	
Naphthalene	91-20-3	0.0020	0.044	
Toluene	108-88-3	0.0020	< 0.0020	
Xylenes, Total	1330-20-7	0.0020	0.0052	
TPH C11-C15 (DRO)		0.020	0.028	
TPH C6-C10 (GRO)		0.020	0.61	
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	113	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	98.3	
Surr: Dibromofluoromethane	1868-53-7	80-124	95.3	
Surr: Toluene-d8	2037-26-5	80-125	97.8	

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<b>Client:</b>	Wasatch Environmental	<b>Contact:</b>	Les Pennington
<b>Project ID:</b>	Gunnison Remediation / 1241-026A		
<b>Lab Sample ID:</b>	0905244-015	<b>Received Date:</b>	5/14/2009
<b>Client Sample ID:</b>	MW-26	<b>Collection Date:</b>	5/12/2009 6:10:00 PM
<b>Method Used:</b>	SW8260C		
<b>Analytical Results</b>	VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C		

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.010	0.38	D
Ethylbenzene	100-41-4	0.0020	0.20	
Naphthalene	91-20-3	0.020	0.076	D
Toluene	108-88-3	0.0020	0.015	
Xylenes, Total	1330-20-7	0.0020	0.087	
TPH C11-C15 (DRO)		0.020	0.13	
TPH C6-C10 (GRO)		0.020	1.9	
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	113	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	85.6	
Surr: Dibromofluoromethane	1868-53-7	80-124	94.5	
Surr: Toluene-d8	2037-26-5	80-125	94.2	

*D - This analyte was obtained from a 1:10 dilution.*

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**Client:** Wasatch Environmental      **Contact:** Les Pennington  
**Project ID:** Gunnison Remediation / 1241-026A  
**Lab Sample ID:** 0905244-016  
**Client Sample ID:** MW-27  
**Collection Date:** 5/12/2009 6:03:00 PM      **Analyzed:** 5/19/2009 9:05:00 PM  
**Received Date:** 5/14/2009  
**Method Used:** SW8260C

**Analytical Results**      VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.20	13	D
Ethylbenzene	100-41-4	0.040	1.0	
Naphthalene	91-20-3	0.040	0.20	
Toluene	108-88-3	0.40	18	D
Xylenes, Total	1330-20-7	0.040	7.8	
TPH C11-C15 (DRO)		0.40	< 0.40	
TPH C6-C10 (GRO)		0.40	44	
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	110	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	99.6	
Surr: Dibromofluoromethane	1868-53-7	80-124	96.8	
Surr: Toluene-d8	2037-26-5	80-125	99.6	

*D - This analyte was obtained from a 1:200 dilution.  
The reporting limits were raised due to high analyte concentrations.*

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## ORGANIC ANALYTICAL REPORT

Client: Wasatch Environmental Contact: Les Pennington  
 Project ID: Gunnison Remediation / 1241-026A  
 Lab Sample ID: 0905244-017  
 Client Sample ID: MW-28  
 Collection Date: 5/12/2009 6:33:00 PM Analyzed: 5/19/2009 11:03:00 PM  
 Received Date: 5/14/2009  
 Method Used: SW8260C

### Analytical Results VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.0010	0.0036	
Ethylbenzene	100-41-4	0.0020	< 0.0020	
Naphthalene	91-20-3	0.0020	< 0.0020	
Toluene	108-88-3	0.0020	< 0.0020	
Xylenes, Total	1330-20-7	0.0020	< 0.0020	
TPH C11-C15 (DRO)		0.020	< 0.020	
TPH C6-C10 (GRO)		0.020	< 0.020	
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	111	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	104	
Surr: Dibromofluoromethane	1868-53-7	80-124	96.3	
Surr: Toluene-d8	2037-26-5	80-125	102	

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<b>Client:</b>	Wasatch Environmental	<b>Contact:</b>	Les Pennington	
<b>Project ID:</b>	Gunnison Remediation / 1241-026A			
	<b>Lab Sample ID:</b>	0905244-018		
	<b>Client Sample ID:</b>	MW-29		
	<b>Collection Date:</b>	5/13/2009 6:03:00 PM	<b>Analyzed:</b>	5/18/2009 9:57:00 PM
	<b>Received Date:</b>	5/14/2009		
	<b>Method Used:</b>	SW8260C		

## Analytical Results VOAs MB1EXN/GRO List by GC/MS Method 8260C/5030C

Units: mg/L	CAS Number	Reporting Limit	Analytical Result	Qual.
Compound				
Benzene	71-43-2	0.010	< 0.010	
Ethylbenzene	100-41-4	0.020	0.076	
Naphthalene	91-20-3	0.020	0.094	
Toluene	108-88-3	0.020	< 0.020	
Xylenes, Total	1330-20-7	0.020	0.13	
TPH C11-C15 (DRO)		0.20	0.22	
TPH C6-C10 (GRO)		0.20	2.1	
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	112	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	97.2	
Surr: Dibromofluoromethane	1868-53-7	80-124	92.4	
Surr: Toluene-d8	2037-26-5	80-125	97.0	

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS. The reporting limits were raised due to high analyte concentrations.

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## ORGANIC ANALYTICAL REPORT

Client:	Wasatch Environmental	Contact:	Les Pennington
Project ID:	Gunnison Remediation / 1241-026A		
Lab Sample ID:	0905244-019		
Client Sample ID:	MW-30		
Collection Date:	5/13/2009 5:22:00 PM	Analyzed:	5/19/2009 11:29:00 PM
Received Date:	5/14/2009		
Method Used:	SW8260C		

### Analytical Results      VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C

Units: mg/L	Dilution Factor: 1	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene		71-43-2	0.0010	< 0.0010	
Ethylbenzene		100-41-4	0.0020	< 0.0020	
Naphthalene		91-20-3	0.0020	< 0.0020	
Toluene		108-88-3	0.0020	< 0.0020	
Xylenes, Total		1330-20-7	0.0020	< 0.0020	
TPH C11-C15 (DRO)			0.020	< 0.020	
TPH C6-C10 (GRO)			0.020	< 0.020	
Surr: 1,2-Dichloroethane-d4		17060-07-0	77-144	112	
Surr: 4-Bromofluorobenzene		460-00-4	80-123	104	
Surr: Dibromofluoromethane		1868-53-7	80-124	96.3	
Surr: Toluene-d8		2037-26-5	80-125	101	

Report Date: 5/22/2009 Page 20 of 26

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Laboratory Director

Jose Rocha  
QA Officer

<b>Client:</b>	Wasatch Environmental	<b>Contact:</b>	Les Pennington
<b>Project ID:</b>	Gunnison Remediation / 1241-026A		
<b>Lab Sample ID:</b>	0905244-020	<b>Received Date:</b>	5/14/2009
<b>Client Sample ID:</b>	MW-31	<b>Collection Date:</b>	5/13/2009 5:47:00 PM
<b>Method Used:</b>	SW8260C		

**Analyzed:** 5/18/2009 11:08:00 AM

### **Analytical Results                          VOAs MBTEXN/GRO List by GC/MS Method 8260C/5030C**

Compound	Units: mg/L	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene		71-43-2	0.0010	< 0.0010	
Ethylbenzene		100-41-4	0.0020	< 0.0020	
Naphthalene		91-20-3	0.0020	< 0.0020	
Toluene		108-88-3	0.0020	< 0.0020	
Xylenes, Total		1330-20-7	0.0020	< 0.0020	
TPH C11-C15 (DRO)			0.020	< 0.020	
TPH C6-C10 (GRO)			0.020	< 0.020	
Surr: 1,2-Dichloroethane-d4		17060-07-0	77-144	112	
Surr: 4-Bromofluorobenzene		460-00-4	80-123	104	
Surr: Dibromofluoromethane		1868-53-7	80-124	95.4	
Surr: Toluene-d8		2037-26-5	80-125	98.9	

Report Date: 5/22/2009 Page 21 of 26

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Kyle F. Gross  
Laboratory DirectorJose Rocha  
QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905244

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
LCS VOC 051509A	Benzene	mg/L	SW8260C	0.019	0.02000	0	96.5	62-127				5/15/2009
LCS VOC 051509A	Ethylbenzene	mg/L	SW8260C	0.018	0.02000	0	90.3	69-133				5/15/2009
LCS VOC 051509A	Methyl tert-butyl ether	mg/L	SW8260C	0.021	0.02000	0	107	37-189				5/15/2009
LCS VOC 051509A	Naphthalene	mg/L	SW8260C	0.020	0.02000	0	99.3	41-131				5/15/2009
LCS VOC 051509A	Toluene	mg/L	SW8260C	0.018	0.02000	0	91.2	67-126				5/15/2009
LCS VOC 051509A	Xylenes, Total	mg/L	SW8260C	0.052	0.06000	0	87.4	70-130				5/15/2009
LCS VOC 051809B	Benzene	mg/L	SW8260C	0.020	0.02000	0	102	62-127				5/18/2009
LCS VOC 051809B	Ethylbenzene	mg/L	SW8260C	0.019	0.02000	0	92.8	69-133				5/18/2009
LCS VOC 051809B	Methyl tert-butyl ether	mg/L	SW8260C	0.022	0.02000	0	112	37-189				5/18/2009
LCS VOC 051809B	Naphthalene	mg/L	SW8260C	0.021	0.02000	0	105	41-131				5/18/2009
LCS VOC 051809B	Toluene	mg/L	SW8260C	0.019	0.02000	0	94.3	67-126				5/18/2009
LCS VOC 051809B	Xylenes, Total	mg/L	SW8260C	0.054	0.06000	0	89.9	70-130				5/18/2009
LCS VOC 051909A	Benzene	mg/L	SW8260C	0.017	0.02000	0	84.5	62-127				5/19/2009
LCS VOC 051909A	Ethylbenzene	mg/L	SW8260C	0.017	0.02000	0	82.9	69-133				5/19/2009
LCS VOC 051909A	Methyl tert-butyl ether	mg/L	SW8260C	0.018	0.02000	0	90.2	37-189				5/19/2009
LCS VOC 051909A	Naphthalene	mg/L	SW8260C	0.018	0.02000	0	88.9	41-131				5/19/2009
LCS VOC 051909A	Toluene	mg/L	SW8260C	0.017	0.02000	0	84.7	67-126				5/19/2009
LCS VOC 051909A	Xylenes, Total	mg/L	SW8260C	0.050	0.06000	0	82.6	70-130				5/19/2009
LCS VOC 051809A	Benzene	mg/L	SW8260C	0.019	0.02000	0	97.4	62-127				5/18/2009
LCS VOC 051809A	Ethylbenzene	mg/L	SW8260C	0.018	0.02000	0	91.5	69-133				5/18/2009
LCS VOC 051809A	Methyl tert-butyl ether	mg/L	SW8260C	0.022	0.02000	0	109	37-189				5/18/2009
LCS VOC 051809A	Naphthalene	mg/L	SW8260C	0.020	0.02000	0	99.1	41-131				5/18/2009
LCS VOC 051809A	Toluene	mg/L	SW8260C	0.019	0.02000	0	94.2	67-126				5/18/2009
LCS VOC 051809A	Xylenes, Total	mg/L	SW8260C	0.054	0.06000	0	90.5	70-130				5/18/2009

Report Date: 5/22/2009 Page 22 of 26

A

## AMERICAN WEST ANALYTICAL LABORATORIES

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 e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905244

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
MB VOC 051509A	Benzene	mg/L	SW8260C	< 0.0010				-				5/15/2009
MB VOC 051509A	Ethylbenzene	mg/L	SW8260C	< 0.0020				-				5/15/2009
MB VOC 051509A	Methyl tert-butyl ether	mg/L	SW8260C	< 0.0020				-				5/15/2009
MB VOC 051509A	Naphthalene	mg/L	SW8260C	< 0.0020				-				5/15/2009
MB VOC 051509A	Toluene	mg/L	SW8260C	< 0.0020				-				5/15/2009
MB VOC 051509A	TPH C11-C15 (DRO)	mg/L	SW8260C	< 0.020				-				5/15/2009
MB VOC 051509A	TPH C6-C10 (GRO)	mg/L	SW8260C	< 0.020				-				5/15/2009
MB VOC 051509A	Xylenes, Total	mg/L	SW8260C	< 0.0020				-				5/15/2009
MB VOC 051809B	Benzene	mg/L	SW8260C	< 0.0010				-				5/18/2009
MB VOC 051809B	Ethylbenzene	mg/L	SW8260C	< 0.0020				-				5/18/2009
MB VOC 051809B	Methyl tert-butyl ether	mg/L	SW8260C	< 0.0020				-				5/18/2009
MB VOC 051809B	Naphthalene	mg/L	SW8260C	< 0.0020				-				5/18/2009
MB VOC 051809B	Toluene	mg/L	SW8260C	< 0.0020				-				5/18/2009
MB VOC 051809B	TPH C11-C15 (DRO)	mg/L	SW8260C	< 0.020				-				5/18/2009
MB VOC 051809B	TPH C6-C10 (GRO)	mg/L	SW8260C	< 0.020				-				5/18/2009
MB VOC 051809B	Xylenes, Total	mg/L	SW8260C	< 0.0020				-				5/18/2009
MB VOC 051909A	Benzene	mg/L	SW8260C	< 0.0010				-				5/19/2009
MB VOC 051909A	Ethylbenzene	mg/L	SW8260C	< 0.0020				-				5/19/2009
MB VOC 051909A	Methyl tert-butyl ether	mg/L	SW8260C	< 0.0020				-				5/19/2009
MB VOC 051909A	Naphthalene	mg/L	SW8260C	< 0.0020				-				5/19/2009
MB VOC 051909A	Toluene	mg/L	SW8260C	< 0.0020				-				5/19/2009
MB VOC 051909A	TPH C11-C15 (DRO)	mg/L	SW8260C	< 0.020				-				5/19/2009
MB VOC 051909A	TPH C6-C10 (GRO)	mg/L	SW8260C	< 0.020				-				5/19/2009
MB VOC 051909A	Xylenes, Total	mg/L	SW8260C	< 0.0020				-				5/19/2009
MB VOC 051809A	Benzene	mg/L	SW8260C	< 0.0010				-				5/18/2009
MB VOC 051809A	Ethylbenzene	mg/L	SW8260C	< 0.0020				-				5/18/2009
MB VOC 051809A	Methyl tert-butyl ether	mg/L	SW8260C	< 0.0020				-				5/18/2009
MB VOC 051809A	Naphthalene	mg/L	SW8260C	< 0.0020				-				5/18/2009
MB VOC 051809A	Toluene	mg/L	SW8260C	< 0.0020				-				5/18/2009
MB VOC 051809A	TPH C11-C15 (DRO)	mg/L	SW8260C	< 0.020				-				5/18/2009

Report Date: 5/22/2009 Page 23 of 26

**A**

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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**CLIENT:** Wasatch Environmental

**Lab Set ID:** 0905244

**Project:** Gunnison Remediation / 1241-026A

**Dept:** MSVOA

**SampType:** MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	% RPD	RPD Limit	Qualifiers	Analysis Date
MB VOC 051809A	TPH C6-C10 (GRO)	mg/L	SW8260C	< 0.020				-				5/18/2009
MB VOC 051809A	Xylenes, Total	mg/L	SW8260C	< 0.0020				-				5/18/2009

Report Date: 5/22/2009 Page 24 of 26

A

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 e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905244

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
0905244-001AMS	Benzene	mg/L	SW8260C	2.9	0.4000	2.400	126	66-145				5/15/2009
0905244-001AMS	Ethylbenzene	mg/L	SW8260C	1.9	0.4000	1.454	112	70-130				5/15/2009
0905244-001AMS	Methyl tert-butyl ether	mg/L	SW8260C	0.44	0.4000	0	111	48-142				5/15/2009
0905244-001AMS	Naphthalene	mg/L	SW8260C	0.88	0.4000	0.9666	-21.1	44-129				5/15/2009
0905244-001AMS	Toluene	mg/L	SW8260C	3.7	0.4000	3.326	103	18-192				5/15/2009
0905244-001AMS	Xylenes, Total	mg/L	SW8260C	8.3	1.200	7.036	108	42-167				5/15/2009
0905244-018AMS	Benzene	mg/L	SW8260C	0.19	0.2000	0	96.5	66-145				5/18/2009
0905244-018AMS	Ethylbenzene	mg/L	SW8260C	0.25	0.2000	0.07640	85.4	70-130				5/18/2009
0905244-018AMS	Methyl tert-butyl ether	mg/L	SW8260C	0.20	0.2000	0	101	48-142				5/18/2009
0905244-018AMS	Naphthalene	mg/L	SW8260C	0.30	0.2000	0.09450	103	44-129				5/18/2009
0905244-018AMS	Toluene	mg/L	SW8260C	0.17	0.2000	0	87.1	18-192				5/18/2009
0905244-018AMS	Xylenes, Total	mg/L	SW8260C	0.62	0.6000	0.1260	82.0	42-167				5/18/2009
0905277-001AMS	Benzene	mg/L	SW8260C	0.36	0.4000	0	89.6	66-145				5/19/2009
0905277-001AMS	Ethylbenzene	mg/L	SW8260C	0.35	0.4000	0	87.5	70-130				5/19/2009
0905277-001AMS	Methyl tert-butyl ether	mg/L	SW8260C	0.40	0.4000	0	99.1	48-142				5/19/2009
0905277-001AMS	Naphthalene	mg/L	SW8260C	0.33	0.4000	0	82.8	44-129				5/19/2009
0905277-001AMS	Toluene	mg/L	SW8260C	0.35	0.4000	0	88.2	18-192				5/19/2009
0905277-001AMS	Xylenes, Total	mg/L	SW8260C	1.0	1.200	0	85.1	42-167				5/19/2009
0905243-005AMS	Benzene	mg/L	SW8260C	0.023	0.02000	0	115	66-145				5/18/2009
0905243-005AMS	Ethylbenzene	mg/L	SW8260C	0.021	0.02000	0	104	70-130				5/18/2009
0905243-005AMS	Methyl tert-butyl ether	mg/L	SW8260C	0.025	0.02000	0	124	48-142				5/18/2009
0905243-005AMS	Naphthalene	mg/L	SW8260C	0.015	0.02000	0	72.6	44-129				5/18/2009
0905243-005AMS	Toluene	mg/L	SW8260C	0.021	0.02000	0	106	18-192				5/18/2009
0905243-005AMS	Xylenes, Total	mg/L	SW8260C	0.058	0.06000	0	96.6	42-167				5/18/2009

\* - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

Report Date: 5/22/2009 Page 25 of 26

A

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Kyle F. Gross  
Laboratory DirectorJose Rocha  
QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905244

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	% RPD	RPD Limit	Qualifiers	Analysis Date
0905244-001AMSD	Benzene	mg/L	SW8260C	3.0	0.4000	2.400	157	66-145	4.24	25	'	5/15/2009
0905244-001AMSD	Ethylbenzene	mg/L	SW8260C	2.0	0.4000	1.454	131	70-130	3.93	25	'	5/15/2009
0905244-001AMSD	Methyl tert-butyl ether	mg/L	SW8260C	0.46	0.4000	0	114	48-142	2.90	25		5/15/2009
0905244-001AMSD	Naphthalene	mg/L	SW8260C	0.96	0.4000	0.9666	-1.60	44-129	8.47	25	'	5/15/2009
0905244-001AMSD	Toluene	mg/L	SW8260C	3.9	0.4000	3.326	141	18-192	3.91	25		5/15/2009
0905244-001AMSD	Xylenes, Total	mg/L	SW8260C	8.7	1.200	7.036	138	42-167	4.16	25		5/15/2009
0905244-018AMSD	Benzene	mg/L	SW8260C	0.20	0.2000	0	97.8	66-145	1.39	25		5/18/2009
0905244-018AMSD	Ethylbenzene	mg/L	SW8260C	0.25	0.2000	0.07640	88.0	70-130	2.12	25		5/18/2009
0905244-018AMSD	Methyl tert-butyl ether	mg/L	SW8260C	0.22	0.2000	0	108	48-142	6.49	25		5/18/2009
0905244-018AMSD	Naphthalene	mg/L	SW8260C	0.36	0.2000	0.09450	132	44-129	17.6	25	'	5/18/2009
0905244-018AMSD	Toluene	mg/L	SW8260C	0.18	0.2000	0	88.6	18-192	1.65	25		5/18/2009
0905244-018AMSD	Xylenes, Total	mg/L	SW8260C	0.63	0.6000	0.1260	84.0	42-167	1.95	25		5/18/2009
0905277-001AMSD	Benzene	mg/L	SW8260C	0.37	0.4000	0	92.5	66-145	3.19	25		5/19/2009
0905277-001AMSD	Ethylbenzene	mg/L	SW8260C	0.36	0.4000	0	90.0	70-130	2.82	25		5/19/2009
0905277-001AMSD	Methyl tert-butyl ether	mg/L	SW8260C	0.39	0.4000	0	97.0	48-142	2.09	25		5/19/2009
0905277-001AMSD	Naphthalene	mg/L	SW8260C	0.35	0.4000	0	88.6	44-129	6.77	25		5/19/2009
0905277-001AMSD	Toluene	mg/L	SW8260C	0.37	0.4000	0	91.7	18-192	3.84	25		5/19/2009
0905277-001AMSD	Xylenes, Total	mg/L	SW8260C	1.1	1.200	0	88.9	42-167	4.35	25		5/19/2009
0905243-005AMSD	Benzene	mg/L	SW8260C	0.025	0.02000	0	123	66-145	6.46	25		5/18/2009
0905243-005AMSD	Ethylbenzene	mg/L	SW8260C	0.023	0.02000	0	113	70-130	7.89	25		5/18/2009
0905243-005AMSD	Methyl tert-butyl ether	mg/L	SW8260C	0.026	0.02000	0	131	48-142	5.18	25		5/18/2009
0905243-005AMSD	Naphthalene	mg/L	SW8260C	0.022	0.02000	0	108	44-129	39.0	25	@	5/18/2009
0905243-005AMSD	Toluene	mg/L	SW8260C	0.023	0.02000	0	116	18-192	8.62	25		5/18/2009
0905243-005AMSD	Xylenes, Total	mg/L	SW8260C	0.066	0.06000	0	110	42-167	13.1	25		5/18/2009

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

' - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

Report Date: 5/22/2009 Page 26 of 26

# American West Analytical Laboratories

## WORK ORDER Summary

14-May-09

Work Order: 0905244

WO Type: Standard

Client ID: WAS580

Contact: Les Pennington

Project: Gunnison Remediation / 1241-026A

Comments: PA Rush / QC 2+

QC Level: LEVEL II+

Reviewed by on

HOK  
HOK-DB

Sample ID	Client Sample ID	Date Collected	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL	Sub	Storage
0905244-001A	WS-2	5/12/2009 5:37:00 PM	5/14/2009	5/26/2009	Aqueous	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-002A	MW-2	5/13/2009 1:57:00 PM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-003A	MW-3	5/13/2009 2:10:00 PM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-004A	MW-5	5/12/2009 5:48:00 PM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-005A	MW-9	5/13/2009 2:20:00 PM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-006A	MW-14	5/13/2009 6:13:00 PM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-007A	MW-17	5/13/2009 2:30:00 PM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-008A	MW-19	5/13/2009 6:20:00 PM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-009A	MW-20	5/13/2009 5:55:00 PM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-010A	MW-21	5/13/2009 5:38:00 PM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-011A	MW-22	5/13/2009 10:07:00 AM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-012A	MW-23	5/12/2009 6:40:00 PM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-013A	MW-24	5/13/2009 10:22:00 AM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-014A	MW-25	5/12/2009 6:19:00 PM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-015A	MW-26	5/12/2009 6:10:00 PM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-016A	MW-27	5/12/2009 6:03:00 PM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-017A	MW-28	5/12/2009 6:33:00 PM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-018A	MW-29	5/13/2009 6:03:00 PM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-019A	MW-30	5/13/2009 5:22:00 PM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge
0905244-020A	MW-31	5/13/2009 5:47:00 PM		5/26/2009	8260-W-PPM	8260-W-PPM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Purge

Client Wasatch Environmental, Inc.  
Address 2410 W California Ave  
SLC UT 84104  
City State Zip  
Phone (801) 972-8400 Fax (801) 972-8459

Contact Les Pennington

E-mail [lp@wasatch-environmental.com](mailto:lp@wasatch-environmental.com)

Project Name Gunnison Remediation

Project Number/P.O.# 1241-026A

Sampler Name Troy Smith

	Sample ID			Matrix	Number	S	T	B	F
1	WS-2		5-12-09   17:37	W	3	✓	✓		
2	MW-2		5-13-09   13:57	W	3	✓	✓		
3	MW-3		5-13-09   14:10	W	3	✓	✓		
4	MW-5		5-12-09   17:48	W	3	✓	✓		
5	MW-9		5-13-09   14:20	W	3	✓	✓		
6	MW-14		" 18:13	W	3	✓	✓		
7	MW-17		" 14:30	W	3	✓	✓		
8	MW-19		" 18:20	W	3	✓	✓		
9	MW-20		" 17:55	W	3	/	✓		
10	MW-21		" 17:38	W	3	✓	✓		
11	MW-22		" 10:07	W	3	✓	✓		
12	MW-23		5-12-09   18:40	W	3	✓	✓		

Relinquished By: Signature 	Date 5-14-09	Received By: Signature 
PRINT NAME Troy Smith	Time 14:04	PRINT NAME Emma Hulme

Relinquished By: <i>Signature</i>	Date	Received By: <i>Signature</i>
PRINT NAME	Time	PRINT NAME

<i>Relinquished By: Signature</i>	Date	<i>Received By: Signature</i>
<b>PRINT NAME</b>	Time	<b>PRINT NAME</b>

Relinquished By: <i>Signature</i>	Date	Received By: <i>Signature</i>
-----------------------------------	------	-------------------------------

**PRINT NAME** \_\_\_\_\_ **Time** \_\_\_\_\_ **PRINT NAME** \_\_\_\_\_

**AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES**  
463 West 3600 South  
Salt Lake City, Utah  
84111

**CHAIN OF  
CUSTODY**

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(888) 263-8686  
x (801) 263-8687  
mail:[awal@awal-labs.com](mailto:awal@awal-labs.com)

Lab Sample Set # 0705299  
Page 1 of 2

**Turn Around Time (Circle One)**

1 day 2 day 3 day 4 day 5 day Standard

QC LEVEL

LABORATORY USE ONLY

- SAMPLES WERE:**  
1 Shipped or hand delivered  
*Notes:*

- 2 Ambient or Chilled  
Notes:

- 3 Temperature 78

- 4 Received Broken/Leaking  
(Improperly Sealed),  
Y N  
Notes:

- 5 Properly Preserved  
Y N  
Notes:

- 6 Received Within  
Holding Times

GOC Tape Was:

- Present on Outer  
Package

- 2 Unbroken on Outer Package

- ### 3 Present on Sample

- 4 Unbroken on Sample  
Y N .  
Notes:

**Special Instructions**

## Discrepancies Between Sample Labels and COC Record?

Y  
Notes:

Client Wasatch Environmental, Inc.  
 Address 2410 W. California Ave  
SLC UT 84104  
 City SLC State UT Zip 84104  
 Phone (801) 972-8400 Fax (801) 972-8459

Contact Les Pennington

E-mail lp@wasatch-environmental.com

Project Name Burnison Remediation

Project Number/P.O.# 1241 - 026A

Sampler Name Troy Smith

Sample ID

3 mw - 24

4 mw - 25

5 mw - 26

6 mw - 27

7 mw - 28

8 mw - 29

9 mw - 30

10 mw - 31

A

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES  
463 West 3600 South  
Salt Lake City, Utah  
84115 Email:awal@awal-labs.com

### CHAIN OF CUSTODY

Lab Sample Set # 090524Y

Page 2 of 2

#### Turn Around Time (Circle One)

1 day 2 day 3 day 4 day 5 day Standard

	Date/Time Collected	Matrix	Number of Containers (Total)	QC LEVEL			COMMENTS
				1	2	2+	
3	4	5	6	7	8	9	10
mw - 24	5-13-09 10:22	w	3				
mw - 25	5-12-09 18:19	w	3				
mw - 26	" 18:10	w	3				
mw - 27	" 18:03	w	3				
mw - 28	" 18:33	w	3				
mw - 29	5-13-09 18:03	w	3				
mw - 30	" 17:22	w	3				
mw - 31	" 17:47	w	3				

Relinquished By: Signature <u>Troy Smith</u>	Date <u>5-14-09</u>	Received By: Signature <u>Elaine Hayes</u>
PRINT NAME <u>Troy Smith</u>	Time <u>4:04</u>	PRINT NAME <u>Elaine Hayes</u>

#### Special Instructions:

Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME

Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME

Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME

#### LABORATORY USE ONLY

##### SAMPLES WERE:

1 Shipped or hand delivered  
Notes:   

2 Ambient or Chilled  
Notes:   

3 Temperature 108

4 Received Broken/Leaking  
(Improperly Sealed)  
Y Notes:   

5 Properly Preserved  
Y Notes:   

6 Received Within  
Holding Times  
Y Notes:   

#### COC Tape Was:

1 Present on Outer  
Package Y N NA

2 Unbroken on Outer  
Package Y N NA

3 Present on Sample  
Y N NA

4 Unbroken on Sample  
Y N NA  
Notes:   

#### Discrepancies Between Sample Labels and COC Record?

Y Notes: N

# A

Les Pennington  
**AMERICAN Wasatch Environmental  
WEST 2410 West California Avenue  
ANALYTICAL Salt Lake City, UT 84104-  
LABORATORIES**  
TEL: (801) 972-8400  
FAX: (801) 972-8459

RE: Gunnison Remediation / 1241-026A

463 West 3600 South  
Salt Lake City, Utah  
84115

Dear Les Pennington:

Lab Set ID: 0905243

American West Analytical Laboratories received 6 sample(s) on 5/14/2009 for the analyses presented in the following report.

All analyses were performed in accordance to The NELAC Institute protocols unless noted otherwise. American West Analytical Laboratories is certified by The NELAC Institute in the following states: Utah, Colorado, Idaho, and Texas. Certification document is available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit.

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Thank You

Approved by: Jose G. Rocha  
Laboratory Director or designee

Report Date: 5/21/2009 Page 1 of 44

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LABORATORIES**

## ORGANIC ANALYTICAL REPORT

Client: Wasatch Environmental Contact: Les Pennington  
 Project ID: Gunnison Remediation / 1241-026A  
 Lab Sample ID: 0905243-003  
 Client Sample ID: MW-32  
 Collection Date: 5/13/2009 8:45:00 PM Analyzed: 5/19/2009 12:05:00 AM  
 Received Date: 5/14/2009  
 Method Used: SW8260C

### Analytical Results

VOAs Full List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.0	< 2.0	
1,1,1-Trichloroethane	71-55-6	2.0	< 2.0	
1,1,2,2-Tetrachloroethane	79-34-5	2.0	< 2.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.0	< 2.0	
1,1,2-Trichloroethane	79-00-5	2.0	< 2.0	
1,1-Dichloro-1-propene	563-58-6	2.0	< 2.0	
1,1-Dichloroethane	75-34-3	2.0	< 2.0	
1,1-Dichloroethene	75-35-4	2.0	< 2.0	
1,2,3-Trichlorobenzene	87-61-6	2.0	< 2.0	
1,2,3-Trichloropropane	96-18-4	2.0	< 2.0	
1,2,3-Trimethylbenzene	526-73-8	2.0	< 2.0	
1,2,4-Trichlorobenzene	120-82-1	2.0	< 2.0	
1,2,4-Trimethylbenzene	95-63-6	2.0	< 2.0	
1,2-Dibromo-3-chloropropane	96-12-8	5.0	< 5.0	
1,2-Dibromoethane	106-93-4	2.0	< 2.0	
1,2-Dichlorobenzene	95-50-1	2.0	< 2.0	
1,2-Dichloroethane	107-06-2	2.0	< 2.0	
1,2-Dichloropropane	78-87-5	2.0	< 2.0	
1,3,5-Trimethylbenzene	108-67-8	2.0	< 2.0	
1,3-Dichlorobenzene	541-73-1	2.0	< 2.0	
1,3-Dichloropropane	142-28-9	2.0	< 2.0	
1,4-Dichlorobenzene	106-46-7	2.0	< 2.0	
1,4-Dioxane	123-91-1	50	< 50	
2,2-Dichloropropane	594-20-7	2.0	< 2.0	
2-Butanone	78-93-3	10	< 10	
2-Chloroethyl vinyl ether	110-75-8	5.0	< 5.0	
2-Chlorotoluene	95-49-8	2.0	< 2.0	
2-Hexanone	591-78-6	5.0	< 5.0	
2-Nitropropane	79-46-9	5.0	< 5.0	

Report Date: 5/21/2009 Page 10 of 44

**A**

# ORGANIC ANALYTICAL REPORT

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463 West 3600 South  
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Email: awal@awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

**Client:** Wasatch Environmental      **Contact:** Les Pennington  
**Project ID:** Gunnison Remediation / 1241-026A  
**Lab Sample ID:** 0905243-003  
**Client Sample ID:** MW-32  
**Collection Date:** 5/13/2009 8:45:00 PM      **Analyzed:** 5/19/2009 12:05:00 AM  
**Received Date:** 5/14/2009  
**Method Used:** SW8260C

## Analytical Results      VOAs Full List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Chlorotoluene	106-43-4	2.0	< 2.0	
4-Isopropyltoluene	99-87-6	2.0	< 2.0	
4-Methyl-2-pentanone	108-10-1	5.0	< 5.0	
Acetone	67-64-1	10	< 10	
Acetonitrile	75-05-8	5.0	< 5.0	
Acrolein	107-02-8	5.0	< 5.0	
Acrylonitrile	107-13-1	10	< 10	
Allyl chloride	107-05-1	5.0	< 5.0	
Benzene	71-43-2	2.0	< 2.0	
Benzyl chloride	100-44-7	5.0	< 5.0	
Bis(2-chloroisopropyl) ether	108-60-1	5.0	< 5.0	
Bromobenzene	108-86-1	2.0	< 2.0	
Bromoform	74-97-5	2.0	< 2.0	
Bromomethane	75-27-4	2.0	< 2.0	
Butyl acetate	75-25-2	2.0	< 2.0	
Carbon disulfide	74-83-9	5.0	< 5.0	
Carbon tetrachloride	123-86-4	5.0	< 5.0	
Chlorobenzene	56-23-5	2.0	< 2.0	
Chloroethane	108-90-7	2.0	< 2.0	
Chloroform	75-00-3	2.0	< 2.0	
Chloromethane	67-66-3	2.0	< 2.0	
Chloroprene	126-99-8	3.0	< 3.0	
cis-1,2-Dichloroethene	156-59-2	2.0	< 2.0	
cis-1,3-Dichloropropene	10061-01-5	2.0	< 2.0	
Cyclohexane	110-82-7	50	< 50	
Cyclohexanone	108-94-1	2.0	< 2.0	
Dibromochloromethane	124-48-1	2.0	< 2.0	

Report Date: 5/21/2009 Page 11 of 44

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# ORGANIC ANALYTICAL REPORT

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LABORATORIES**

463 West 3600 South  
Salt Lake City, Utah  
84115

Client: Wasatch Environmental Contact: Les Pennington  
 Project ID: Gunnison Remediation / 1241-026A  
 Lab Sample ID: 0905243-003  
 Client Sample ID: MW-32  
 Collection Date: 5/13/2009 8:45:00 PM Analyzed: 5/19/2009 12:05:00 AM  
 Received Date: 5/14/2009  
 Method Used: SW8260C

## Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Dibromomethane	74-95-3	2.0	< 2.0	
Dichlorodifluoromethane	75-71-8	2.0	< 2.0	
Ethyl acetate	141-78-6	10	< 10	
Ethyl ether	60-29-7	10	< 10	
Ethyl methacrylate	97-63-2	2.0	< 2.0	
Ethylbenzene	100-41-4	2.0	< 2.0	
Hexachlorobutadiene	87-68-3	2.0	< 2.0	
Iodomethane	74-88-4	5.0	< 5.0	
Kyle F. Gross Laboratory Director	Isobutyl alcohol	78-83-1	100	< 100
	Isopropyl acetate	108-21-4	2.0	< 2.0
	Isopropyl alcohol	67-63-0	25	< 25
Jose Rocha QA Officer	Isopropylbenzene	98-82-8	2.0	< 2.0
	m,p-Xylene	179601-23-1	2.0	< 2.0
	Methacrylonitrile	126-98-7	5.0	< 5.0
	Methyl Acetate	79-20-9	5.0	< 5.0
	Methyl methacrylate	80-62-6	5.0	< 5.0
	Methyl tert-butyl ether	1634-04-4	2.0	< 2.0
	Methylcyclohexane	108-87-2	2.0	< 2.0
	Methylene chloride	75-09-2	2.0	< 2.0
	n-Amyl acetate	628-63-7	2.0	< 2.0
	n-Butyl alcohol	71-36-3	50	< 50
	n-Butylbenzene	104-51-8	2.0	< 2.0
	n-Hexane	110-54-3	2.0	< 2.0
	n-Octane	111-65-9	2.0	< 2.0
	n-Propylbenzene	103-65-1	2.0	< 2.0
	Naphthalene	91-20-3	2.0	< 2.0
	o-Xylene	95-47-6	2.0	< 2.0
	Pentachloroethane	76-01-7	5.0	< 5.0
	Propionitrile	107-12-0	25	< 25

Report Date: 5/21/2009 Page 12 of 44

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e-mail: awal@awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## ORGANIC ANALYTICAL REPORT

Client: Wasatch Environmental Contact: Les Pennington  
 Project ID: Gunnison Remediation / 1241-026A  
 Lab Sample ID: 0905243-003  
 Client Sample ID: MW-32  
 Collection Date: 5/13/2009 8:45:00 PM Analyzed: 5/19/2009 12:05:00 AM  
 Received Date: 5/14/2009 Extracted:  
 Method Used: SW8260C

### Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Propyl acetate	109-60-4	2.0	< 2.0	
sec-Butylbenzene	135-98-8	2.0	< 2.0	
Styrene	100-42-5	2.0	< 2.0	
tert-Butyl alcohol	76-65-0	20	< 20	
tert-Butylbenzene	98-06-6	2.0	< 2.0	
Tetrachloroethene	127-18-4	2.0	< 2.0	
Tetrahydrofuran	109-99-9	2.0	8.1	
Toluene	108-88-3	2.0	< 2.0	
trans-1,2-Dichloroethene	156-60-5	2.0	< 2.0	
trans-1,3-Dichloropropene	10061-02-6	2.0	< 2.0	
trans-1,4-Dichloro-2-butene	110-57-6	2.0	< 2.0	
Trichloroethene	79-01-6	2.0	< 2.0	
Trichlorofluoromethane	75-69-4	2.0	< 2.0	
Vinyl acetate	108-05-4	10	< 10	
Vinyl chloride	75-01-4	1.0	< 1.0	
Xylenes, Total	1330-20-7	2.0	< 2.0	
TPH C11-C15 (DRO)		20	< 20	^
TPH C6-C10 (GRO)		20	< 20	^
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	115	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	101	
Surr: Dibromofluoromethane	1868-53-7	80-124	97.3	
Surr: Toluene-d8	2037-26-5	80-125	98.1	

<sup>^</sup> - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

**Client:** Wasatch Environmental      **Contact:** Les Pennington  
**Project ID:** Gunnison Remediation / 1241-026A  
**Lab Sample ID:** 0905243-004  
**Client Sample ID:** MW-33  
**Collection Date:** 5/13/2009 8:25:00 AM      **Analyzed:** 5/18/2009 11:39:00 PM  
**Received Date:** 5/14/2009  
**Method Used:** SW8260C

## VOAs Full List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.0	< 2.0	
1,1,1-Trichloroethane	71-55-6	2.0	< 2.0	
1,1,2,2-Tetrachloroethane	79-34-5	2.0	< 2.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.0	< 2.0	
1,1,2-Trichloroethane	79-00-5	2.0	< 2.0	
1,1-Dichloro-1-propene	563-58-6	2.0	< 2.0	
1,1-Dichloroethane	75-34-3	2.0	< 2.0	
1,1-Dichloroethene	75-35-4	2.0	< 2.0	
1,2,3-Trichlorobenzene	87-61-6	2.0	< 2.0	
1,2,3-Trichloropropane	96-18-4	2.0	< 2.0	
1,2,3-Trimethylbenzene	526-73-8	2.0	< 2.0	
1,2,4-Trichlorobenzene	120-82-1	2.0	< 2.0	
1,2,4-Trimethylbenzene	95-63-6	2.0	< 2.0	
1,2-Dibromo-3-chloropropane	96-12-8	5.0	< 5.0	
1,2-Dibromoethane	106-93-4	2.0	< 2.0	
1,2-Dichlorobenzene	95-50-1	2.0	< 2.0	
1,2-Dichloroethane	107-06-2	2.0	< 2.0	
1,2-Dichloropropane	78-87-5	2.0	< 2.0	
1,3,5-Trimethylbenzene	108-67-8	2.0	< 2.0	
1,3-Dichlorobenzene	541-73-1	2.0	< 2.0	
1,3-Dichloropropane	142-28-9	2.0	< 2.0	
1,4-Dichlorobenzene	106-46-7	2.0	< 2.0	
1,4-Dioxane	123-91-1	50	< 50	
2,2-Dichloropropane	594-20-7	2.0	< 2.0	
2-Butanone	78-93-3	10	< 10	
2-Chloroethyl vinyl ether	110-75-8	5.0	< 5.0	
2-Chlorotoluene	95-49-8	2.0	< 2.0	
2-Hexanone	591-78-6	5.0	< 5.0	
2-Nitropropane	79-46-9	5.0	< 5.0	

Report Date: 5/21/2009 Page 14 of 44

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463 West 3600 South  
Salt Lake City, Utah  
84115

Client: Wasatch Environmental Contact: Les Pennington  
 Project ID: Gunnison Remediation / 1241-026A  
 Lab Sample ID: 0905243-004  
 Client Sample ID: MW-33  
 Collection Date: 5/13/2009 8:25:00 AM Analyzed: 5/18/2009 11:39:00 PM  
 Received Date: 5/14/2009  
 Method Used: SW8260C

## Analytical Results

## VOAs Full List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Chlorotoluene	106-43-4	2.0	< 2.0	
4-Isopropyltoluene	99-87-6	2.0	< 2.0	
4-Methyl-2-pentanone	108-10-1	5.0	< 5.0	
Acetone	67-64-1	10	< 10	
(801) 263-8686	Acetonitrile	75-05-8	< 5.0	
Toll Free (888) 263-8686	Acrolein	107-02-8	< 5.0	
Fax (801) 263-8687	Acrylonitrile	107-13-1	< 10	
email: awal@awal-labs.com	Allyl chloride	107-05-1	< 5.0	
Kyle F. Gross	Benzene	71-43-2	< 2.0	
Laboratory Director	Benzyl chloride	100-44-7	< 5.0	
	Bis(2-chloroisopropyl) ether	108-60-1	< 5.0	
Jose Rocha	Bromobenzene	108-86-1	< 2.0	
QA Officer	Bromoform	74-97-5	< 2.0	
	Bromodichloromethane	75-27-4	< 2.0	
	Bromoform	75-25-2	< 2.0	
	Bromomethane	74-83-9	< 5.0	
	Butyl acetate	123-86-4	< 5.0	
	Carbon disulfide	75-15-0	< 2.0	
	Carbon tetrachloride	56-23-5	< 2.0	
	Chlorobenzene	108-90-7	< 2.0	
	Chloroethane	75-00-3	< 2.0	
	Chloroform	67-66-3	< 2.0	
	Chloromethane	74-87-3	< 3.0	
	Chloroprene	126-99-8	< 2.0	
	cis-1,2-Dichloroethene	156-59-2	< 2.0	
	cis-1,3-Dichloropropene	10061-01-5	< 2.0	
	Cyclohexane	110-82-7	< 2.0	
	Cyclohexanone	108-94-1	< 50	
	Dibromochloromethane	124-48-1	< 2.0	

Report Date: 5/21/2009 Page 15 of 44

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463 West 3600 South  
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Client: Wasatch Environmental Contact: Les Pennington  
 Project ID: Gunnison Remediation / 1241-026A  
 Lab Sample ID: 0905243-004  
 Client Sample ID: MW-33  
 Collection Date: 5/13/2009 8:25:00 AM Analyzed: 5/18/2009 11:39:00 PM  
 Received Date: 5/14/2009  
 Method Used: SW8260C

## Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Dibromomethane	74-95-3	2.0	< 2.0	
Dichlorodifluoromethane	75-71-8	2.0	< 2.0	
Ethyl acetate	141-78-6	10	< 10	
Ethyl ether	60-29-7	10	< 10	
Ethyl methacrylate	97-63-2	2.0	< 2.0	
Ethylbenzene	100-41-4	2.0	< 2.0	
Hexachlorobutadiene	87-68-3	2.0	< 2.0	
Iodomethane	74-88-4	5.0	< 5.0	
Isobutyl alcohol	78-83-1	100	< 100	
Isopropyl acetate	108-21-4	2.0	< 2.0	
Isopropyl alcohol	67-63-0	25	< 25	
Isopropylbenzene	98-82-8	2.0	< 2.0	
m,p-Xylene	179601-23-1	2.0	< 2.0	
Methacrylonitrile	126-98-7	5.0	< 5.0	
Methyl Acetate	79-20-9	5.0	< 5.0	
Methyl methacrylate	80-62-6	5.0	< 5.0	
Methyl tert-butyl ether	1634-04-4	2.0	< 2.0	
Methylcyclohexane	108-87-2	2.0	< 2.0	
Methylene chloride	75-09-2	2.0	< 2.0	
n-Amyl acetate	628-63-7	2.0	< 2.0	
n-Butyl alcohol	71-36-3	50	< 50	
n-Butylbenzene	104-51-8	2.0	< 2.0	
n-Hexane	110-54-3	2.0	< 2.0	
n-Octane	111-65-9	2.0	< 2.0	
n-Propylbenzene	103-65-1	2.0	< 2.0	
Naphthalene	91-20-3	2.0	< 2.0	
o-Xylene	95-47-6	2.0	< 2.0	
Pentachloroethane	76-01-7	5.0	< 5.0	
Propionitrile	107-12-0	25	< 25	

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e-mail: awal@awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## ORGANIC ANALYTICAL REPORT

Client: Wasatch Environmental Contact: Les Pennington  
Project ID: Gunnison Remediation / 1241-026A  
Lab Sample ID: 0905243-004  
Client Sample ID: MW-33  
Collection Date: 5/13/2009 8:25:00 AM Analyzed: 5/18/2009 11:39:00 PM  
Received Date: 5/14/2009 Extracted:  
Method Used: SW8260C

### Analytical Results      VOAs Full List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Propyl acetate	109-60-4	2.0	< 2.0	
sec-Butylbenzene	135-98-8	2.0	< 2.0	
Styrene	100-42-5	2.0	< 2.0	
tert-Butyl alcohol	76-65-0	20	< 20	
tert-Butylbenzene	98-06-6	2.0	< 2.0	
Tetrachloroethene	127-18-4	2.0	< 2.0	
Tetrahydrofuran	109-99-9	2.0	180	
Toluene	108-88-3	2.0	< 2.0	
trans-1,2-Dichloroethene	156-60-5	2.0	< 2.0	
trans-1,3-Dichloropropene	10061-02-6	2.0	< 2.0	
trans-1,4-Dichloro-2-butene	110-57-6	2.0	< 2.0	
Trichloroethene	79-01-6	2.0	< 2.0	
Trichlorofluoromethane	75-69-4	2.0	< 2.0	
Vinyl acetate	108-05-4	10	< 10	
Vinyl chloride	75-01-4	1.0	< 1.0	
Xylenes, Total	1330-20-7	2.0	< 2.0	
TPH C11-C15 (DRO)		20	< 20	^
TPH C6-C10 (GRO)		20	< 20	^
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	114	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	105	
Surr: Dibromofluoromethane	1868-53-7	80-124	97.2	
Surr: Toluene-d8	2037-26-5	80-125	97.9	

<sup>^</sup>- Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

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# ORGANIC ANALYTICAL REPORT

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**Client:** Wasatch Environmental      **Contact:** Les Pennington  
**Project ID:** Gunnison Remediation / 1241-026A  
**Lab Sample ID:** 0905243-005  
**Client Sample ID:** MW-34  
**Collection Date:** 5/13/2009 7:50:00 AM      **Analyzed:** 5/18/2009 10:17:00 AM  
**Received Date:** 5/14/2009  
**Method Used:** SW8260C

## Analytical Results                          VOAs Full List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.0	< 2.0	
1,1,1-Trichloroethane	71-55-6	2.0	< 2.0	
1,1,2,2-Tetrachloroethane	79-34-5	2.0	< 2.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.0	< 2.0	
1,1,2-Trichloroethane	79-00-5	2.0	< 2.0	
1,1-Dichloro-1-propene	563-58-6	2.0	< 2.0	
1,1-Dichloroethane	75-34-3	2.0	< 2.0	
1,1-Dichloroethene	75-35-4	2.0	< 2.0	
1,2,3-Trichlorobenzene	87-61-6	2.0	< 2.0	
1,2,3-Trichloropropane	96-18-4	2.0	< 2.0	
1,2,3-Trimethylbenzene	526-73-8	2.0	< 2.0	
1,2,4-Trichlorobenzene	120-82-1	2.0	< 2.0	
1,2,4-Trimethylbenzene	95-63-6	2.0	< 2.0	
1,2-Dibromo-3-chloropropane	96-12-8	5.0	< 5.0	
1,2-Dibromoethane	106-93-4	2.0	< 2.0	
1,2-Dichlorobenzene	95-50-1	2.0	< 2.0	
1,2-Dichloroethane	107-06-2	2.0	< 2.0	
1,2-Dichloropropane	78-87-5	2.0	< 2.0	
1,3,5-Trimethylbenzene	108-67-8	2.0	< 2.0	
1,3-Dichlorobenzene	541-73-1	2.0	< 2.0	
1,3-Dichloropropane	142-28-9	2.0	< 2.0	
1,4-Dichlorobenzene	106-46-7	2.0	< 2.0	
1,4-Dioxane	123-91-1	50	< 50	
2,2-Dichloropropane	594-20-7	2.0	< 2.0	
2-Butanone	78-93-3	10	< 10	
2-Chloroethyl vinyl ether	110-75-8	5.0	< 5.0	
2-Chlorotoluene	95-49-8	2.0	< 2.0	
2-Hexanone	591-78-6	5.0	< 5.0	
2-Nitropropane	79-46-9	5.0	< 5.0	

Report Date: 5/21/2009 Page 18 of 44



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## ORGANIC ANALYTICAL REPORT

**Client:** Wasatch Environmental      **Contact:** Les Pennington  
**Project ID:** Gunnison Remediation / 1241-026A  
**Lab Sample ID:** 0905243-005  
**Client Sample ID:** MW-34  
**Collection Date:** 5/13/2009 7:50:00 AM      **Analyzed:** 5/18/2009 10:17:00 AM  
**Received Date:** 5/14/2009  
**Method Used:** SW8260C

### **Analytical Results**                          VOAs Full List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Chlorotoluene	106-43-4	2.0	< 2.0	
4-Isopropyltoluene	99-87-6	2.0	< 2.0	
4-Methyl-2-pentanone	108-10-1	5.0	< 5.0	
Acetone	67-64-1	10	< 10	
(801) 263-8686				
Toll Free (888) 263-8686				
Fax (801) 263-8687				
<a href="mailto:awal@awal-labs.com">awal@awal-labs.com</a>				
Kyle F. Gross Laboratory Director	Benzene	71-43-2	< 2.0	
	Benzyl chloride	100-44-7	< 5.0	
	Bis(2-chloroisopropyl) ether	108-60-1	< 5.0	
Jose Rocha QA Officer	Bromobenzene	108-86-1	< 2.0	
	Bromoform	74-97-5	< 2.0	
	Bromomethane	75-27-4	< 2.0	
	Butyl acetate	75-25-2	< 2.0	
	Carbon disulfide	74-83-9	< 5.0	
	Carbon tetrachloride	123-86-4	< 5.0	
	Chlorobenzene	56-23-5	< 2.0	
	Chloroethane	108-90-7	< 2.0	
	Chloroform	75-00-3	< 2.0	
	Chloromethane	67-66-3	< 2.0	
	Chloroprene	126-99-8	< 2.0	
	cis-1,2-Dichloroethene	156-59-2	< 2.0	
	cis-1,3-Dichloropropene	10061-01-5	< 2.0	
	Cyclohexane	110-82-7	< 2.0	
	Cyclohexanone	108-94-1	< 50	
	Dibromochloromethane	124-48-1	< 2.0	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## ORGANIC ANALYTICAL REPORT

Client: Wasatch Environmental Contact: Les Pennington  
 Project ID: Gunnison Remediation / 1241-026A  
 Lab Sample ID: 0905243-005  
 Client Sample ID: MW-34  
 Collection Date: 5/13/2009 7:50:00 AM Analyzed: 5/18/2009 10:17:00 AM  
 Received Date: 5/14/2009  
 Method Used: SW8260C

### Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Dibromomethane	74-95-3	2.0	<2.0	
Dichlorodifluoromethane	75-71-8	2.0	<2.0	
Ethyl acetate	141-78-6	10	<10	
Ethyl ether	60-29-7	10	<10	
Ethyl methacrylate	97-63-2	2.0	<2.0	
Ethylbenzene	100-41-4	2.0	<2.0	
Hexachlorobutadiene	87-68-3	2.0	<2.0	
Iodomethane	74-88-4	5.0	<5.0	
Isobutyl alcohol	78-83-1	100	<100	
Isopropyl acetate	108-21-4	2.0	<2.0	
Isopropyl alcohol	67-63-0	25	<25	
Isopropylbenzene	98-82-8	2.0	<2.0	
m,p-Xylene	179601-23-1	2.0	<2.0	
Methacrylonitrile	126-98-7	5.0	<5.0	
Methyl Acetate	79-20-9	5.0	<5.0	
Methyl methacrylate	80-62-6	5.0	<5.0	
Methyl tert-butyl ether	1634-04-4	2.0	<2.0	
Methylcyclohexane	108-87-2	2.0	<2.0	
Methylene chloride	75-09-2	2.0	<2.0	
n-Amyl acetate	628-63-7	2.0	<2.0	
n-Butyl alcohol	71-36-3	50	<50	
n-Butylbenzene	104-51-8	2.0	<2.0	
n-Hexane	110-54-3	2.0	<2.0	
n-Octane	111-65-9	2.0	<2.0	
n-Propylbenzene	103-65-1	2.0	<2.0	
Naphthalene	91-20-3	2.0	<2.0	@
o-Xylene	95-47-6	2.0	<2.0	
Pentachloroethane	76-01-7	5.0	<5.0	
Propionitrile	107-12-0	25	<25	

Report Date: 5/21/2009 Page 20 of 44

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

<b>Client:</b>	Wasatch Environmental	<b>Contact:</b>	Les Pennington
<b>Project ID:</b>	Gunnison Remediation / 1241-026A		
<b>Lab Sample ID:</b>	0905243-005	<b>Analyzed:</b>	5/18/2009 10:17:00 AM
<b>Client Sample ID:</b>	MW-34	<b>Extracted:</b>	
<b>Collection Date:</b>	5/13/2009 7:50:00 AM	<b>Received Date:</b>	5/14/2009
<b>Method Used:</b>	SW8260C		

### Analytical Results                          VOAs Full List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Propyl acetate	109-60-4	2.0	< 2.0	
sec-Butylbenzene	135-98-8	2.0	< 2.0	
Styrene	100-42-5	2.0	< 2.0	
tert-Butyl alcohol	76-65-0	20	< 20	
tert-Butylbenzene	98-06-6	2.0	< 2.0	
Tetrachloroethene	127-18-4	2.0	< 2.0	
Tetrahydrofuran	109-99-9	2.0	< 2.0	
Toluene	108-88-3	2.0	< 2.0	
trans-1,2-Dichloroethene	156-60-5	2.0	< 2.0	
trans-1,3-Dichloropropene	10061-02-6	2.0	< 2.0	
trans-1,4-Dichloro-2-butene	110-57-6	2.0	< 2.0	
Trichloroethene	79-01-6	2.0	< 2.0	
Trichlorofluoromethane	75-69-4	2.0	< 2.0	
Vinyl acetate	108-05-4	10	< 10	
Vinyl chloride	75-01-4	1.0	< 1.0	
Xylenes, Total	1330-20-7	2.0	< 2.0	
TPH C11-C15 (DRO)		20	< 20	^
TPH C6-C10 (GRO)		20	< 20	^
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	113	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	108	
Surr: Dibromofluoromethane	1868-53-7	80-124	95.1	
Surr: Toluene-d8	2037-26-5	80-125	98.6	

<sup>^</sup> - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

@ - High RPD due to suspected sample non-homogeneity or matrix interference.



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## ORGANIC ANALYTICAL REPORT

**Client:** Wasatch Environmental      **Contact:** Les Pennington  
**Project ID:** Gunnison Remediation / 1241-026A  
**Lab Sample ID:** 0905243-006  
**Client Sample ID:** MW-35  
**Collection Date:** 5/12/2009 6:26:00 PM      **Analyzed:** 5/18/2009 10:43:00 AM  
**Received Date:** 5/14/2009  
**Method Used:** SW8260C

### Analytical Results

### VOAs Full List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.0	< 2.0	
1,1,1-Trichloroethane	71-55-6	2.0	< 2.0	
1,1,2,2-Tetrachloroethane	79-34-5	2.0	< 2.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.0	< 2.0	
(801) 263-8686				
Toll Free (888) 263-8686				
Fax (801) 263-8687				
email: awal@awal-labs.com				
Kyle F. Gross				
Laboratory Director				
Jose Rocha				
QA Officer				
1,1,2,3-Trichlorobenzene	87-61-6	2.0	< 2.0	
1,2,3-Trichloropropane	96-18-4	2.0	< 2.0	
1,2,3-Trimethylbenzene	526-73-8	2.0	< 2.0	
1,2,4-Trichlorobenzene	120-82-1	2.0	< 2.0	
1,2,4-Trimethylbenzene	95-63-6	2.0	< 2.0	
1,2-Dibromo-3-chloropropane	96-12-8	5.0	< 5.0	
1,2-Dibromoethane	106-93-4	2.0	< 2.0	
1,2-Dichlorobenzene	95-50-1	2.0	< 2.0	
1,2-Dichloroethane	107-06-2	2.0	< 2.0	
1,2-Dichloropropane	78-87-5	2.0	< 2.0	
1,3,5-Trimethylbenzene	108-67-8	2.0	< 2.0	
1,3-Dichlorobenzene	541-73-1	2.0	< 2.0	
1,3-Dichloropropane	142-28-9	2.0	< 2.0	
1,4-Dichlorobenzene	106-46-7	2.0	< 2.0	
1,4-Dioxane	123-91-1	50	< 50	
2,2-Dichloropropane	594-20-7	2.0	< 2.0	
2-Butanone	78-93-3	10	< 10	
2-Chloroethyl vinyl ether	110-75-8	5.0	< 5.0	
2-Chlorotoluene	95-49-8	2.0	< 2.0	
2-Hexanone	591-78-6	5.0	< 5.0	
2-Nitropropane	79-46-9	5.0	< 5.0	

Report Date: 5/21/2009 Page 22 of 44

**A**

# ORGANIC ANALYTICAL REPORT

**AMERICAN  
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463 West 3600 South  
Salt Lake City, Utah  
84115

Client: Wasatch Environmental Contact: Les Pennington  
 Project ID: Gunnison Remediation / 1241-026A  
 Lab Sample ID: 0905243-006  
 Client Sample ID: MW-35  
 Collection Date: 5/12/2009 6:26:00 PM Analyzed: 5/18/2009 10:43:00 AM  
 Received Date: 5/14/2009  
 Method Used: SW8260C

## Analytical Results

VOAs Full List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Chlorotoluene	106-43-4	2.0	< 2.0	
4-Isopropyltoluene	99-87-6	2.0	< 2.0	
4-Methyl-2-pentanone	108-10-1	5.0	< 5.0	
Acetone	67-64-1	10	< 10	
(801) 263-8686	Acetonitrile	75-05-8	< 5.0	
Toll Free (888) 263-8686	Acrolein	107-02-8	< 5.0	
Fax (801) 263-8687	Acrylonitrile	107-13-1	< 10	
awal@awal-labs.com	Allyl chloride	107-05-1	< 5.0	
Kyle F. Gross	Benzene	71-43-2	< 2.0	
Laboratory Director	Benzyl chloride	100-44-7	< 5.0	
	Bis(2-chloroisopropyl) ether	108-60-1	< 5.0	
Jose Rocha	Bromobenzene	108-86-1	< 2.0	
QA Officer	Bromoform	74-97-5	< 2.0	
	Bromochloromethane	75-27-4	< 2.0	
	Bromodichloromethane	75-25-2	< 2.0	
	Bromomethane	74-83-9	< 5.0	
	Butyl acetate	123-86-4	< 5.0	
	Carbon disulfide	75-15-0	< 2.0	
	Carbon tetrachloride	56-23-5	< 2.0	
	Chlorobenzene	108-90-7	< 2.0	
	Chloroethane	75-00-3	< 2.0	
	Chloroform	67-66-3	< 2.0	
	Chloromethane	74-87-3	< 3.0	
	Chloroprene	126-99-8	< 2.0	
	cis-1,2-Dichloroethene	156-59-2	< 2.0	
	cis-1,3-Dichloropropene	10061-01-5	< 2.0	
	Cyclohexane	110-82-7	< 2.0	
	Cyclohexanone	108-94-1	50	< 50
	Dibromochloromethane	124-48-1	2.0	< 2.0

Report Date: 5/21/2009 Page 23 of 44

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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## ORGANIC ANALYTICAL REPORT

**Client:** Wasatch Environmental      **Contact:** Les Pennington  
**Project ID:** Gunnison Remediation / 1241-026A  
**Lab Sample ID:** 0905243-006  
**Client Sample ID:** MW-35  
**Collection Date:** 5/12/2009 6:26:00 PM      **Analyzed:** 5/18/2009 10:43:00 AM  
**Received Date:** 5/14/2009  
**Method Used:** SW8260C

### Analytical Results                          VOAs Full List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Dibromomethane	74-95-3	2.0	< 2.0	
Dichlorodifluoromethane	75-71-8	2.0	< 2.0	
Ethyl acetate	141-78-6	10	< 10	
Ethyl ether	60-29-7	10	< 10	
(801) 263-8686	Ethyl methacrylate	97-63-2	< 2.0	
Toll Free (888) 263-8686	Ethylbenzene	100-41-4	< 2.0	
Fax (801) 263-8687	Hexachlorobutadiene	87-68-3	< 2.0	
mailto: awal@awal-labs.com	Iodomethane	74-88-4	< 5.0	
Kyle F. Gross	Isobutyl alcohol	78-83-1	< 100	
Laboratory Director	Isopropyl acetate	108-21-4	< 2.0	
	Isopropyl alcohol	67-63-0	< 25	
Jose Rocha	Isopropylbenzene	98-82-8	< 2.0	
QA Officer	m,p-Xylene	179601-23-1	< 2.0	
	Methacrylonitrile	126-98-7	< 5.0	
	Methyl Acetate	79-20-9	< 5.0	
	Methyl methacrylate	80-62-6	< 5.0	
	Methyl tert-butyl ether	1634-04-4	< 2.0	
	Methylcyclohexane	108-87-2	< 2.0	
	Methylene chloride	75-09-2	< 2.0	
	n-Amyl acetate	628-63-7	< 2.0	
	n-Butyl alcohol	71-36-3	< 50	
	n-Butylbenzene	104-51-8	< 2.0	
	n-Hexane	110-54-3	< 2.0	
	n-Octane	111-65-9	< 2.0	
	n-Propylbenzene	103-65-1	< 2.0	
	Naphthalene	91-20-3	< 2.0	
	o-Xylene	95-47-6	< 2.0	
	Pentachloroethane	76-01-7	< 5.0	
	Propionitrile	107-12-0	< 25	

Report Date: 5/21/2009 Page 24 of 44

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## ORGANIC ANALYTICAL REPORT

Client: Wasatch Environmental Contact: Les Pennington  
 Project ID: Gunnison Remediation / 1241-026A  
 Lab Sample ID: 0905243-006  
 Client Sample ID: MW-35  
 Collection Date: 5/12/2009 6:26:00 PM Analyzed: 5/18/2009 10:43:00 AM  
 Received Date: 5/14/2009 Extracted:  
 Method Used: SW8260C

### Analytical Results

VOAs Full List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Propyl acetate	109-60-4	2.0	< 2.0	
sec-Butylbenzene	135-98-8	2.0	< 2.0	
Styrene	100-42-5	2.0	< 2.0	
tert-Butyl alcohol	76-65-0	20	< 20	
tert-Butylbenzene	98-06-6	2.0	< 2.0	
Tetrachloroethene	127-18-4	2.0	< 2.0	
Tetrahydrofuran	109-99-9	2.0	< 2.0	
Toluene	108-88-3	2.0	< 2.0	
trans-1,2-Dichloroethene	156-60-5	2.0	< 2.0	
trans-1,3-Dichloropropene	10061-02-6	2.0	< 2.0	
trans-1,4-Dichloro-2-butene	110-57-6	2.0	< 2.0	
Trichloroethene	79-01-6	2.0	< 2.0	
Trichlorofluoromethane	75-69-4	2.0	< 2.0	
Vinyl acetate	108-05-4	10	< 10	
Vinyl chloride	75-01-4	1.0	< 1.0	
Xylenes, Total	1330-20-7	2.0	< 2.0	
TPH C11-C15 (DRO)		20	< 20	^
TPH C6-C10 (GRO)		20	< 20	^
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	113	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	103	
Surr: Dibromofluoromethane	1868-53-7	80-124	94.5	
Surr: Toluene-d8	2037-26-5	80-125	98.6	

*^- Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.*

**A**

# ORGANIC ANALYTICAL REPORT

**AMERICAN WEST ANALYTICAL LABORATORIES**

Client: Wasatch Environmental Contact: Les Pennington  
 Project ID: Gunnison Remediation / 1241-026A  
 Lab Sample ID: 0905243-001  
 Client Sample ID: MW-36  
 Collection Date: 5/13/2009 9:53:00 AM Analyzed: 5/15/2009 5:04:00 AM  
 Received Date: 5/14/2009  
 Method Used: SW8260C

## Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

463 West 3600 South  
 Salt Lake City, Utah  
 84115

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.0	< 2.0	
1,1,1-Trichloroethane	71-55-6	2.0	< 2.0	
1,1,2,2-Tetrachloroethane	79-34-5	2.0	< 2.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.0	< 2.0	
1,1,2-Trichloroethane	79-00-5	2.0	< 2.0	
1,1-Dichloro-1-propene	563-58-6	2.0	< 2.0	
1,1-Dichloroethane	75-34-3	2.0	< 2.0	
1,1-Dichloroethene	75-35-4	2.0	< 2.0	
1,2,3-Trichlorobenzene	87-61-6	2.0	< 2.0	
1,2,3-Trichloropropane	96-18-4	2.0	< 2.0	
1,2,3-Trimethylbenzene	526-73-8	2.0	< 2.0	
1,2,4-Trichlorobenzene	120-82-1	2.0	< 2.0	
1,2,4-Trimethylbenzene	95-63-6	2.0	< 2.0	
1,2-Dibromo-3-chloropropane	96-12-8	5.0	< 5.0	
1,2-Dibromoethane	106-93-4	2.0	< 2.0	
1,2-Dichlorobenzene	95-50-1	2.0	< 2.0	
1,2-Dichloroethane	107-06-2	2.0	< 2.0	
1,2-Dichloropropane	78-87-5	2.0	< 2.0	
1,3,5-Trimethylbenzene	108-67-8	2.0	< 2.0	
1,3-Dichlorobenzene	541-73-1	2.0	< 2.0	
1,3-Dichloropropane	142-28-9	2.0	< 2.0	
1,4-Dichlorobenzene	106-46-7	2.0	< 2.0	
1,4-Dioxane	123-91-1	50	< 50	
2,2-Dichloropropane	594-20-7	2.0	< 2.0	
2-Butanone	78-93-3	10	< 10	
2-Chloroethyl vinyl ether	110-75-8	5.0	< 5.0	
2-Chlorotoluene	95-49-8	2.0	< 2.0	
2-Hexanone	591-78-6	5.0	< 5.0	
2-Nitropropane	79-46-9	5.0	< 5.0	

Report Date: 5/21/2009 Page 2 of 44

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only upon contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

**A**

# ORGANIC ANALYTICAL REPORT

**AMERICAN**  
**WEST**  
**ANALYTICAL**  
**LABORATORIES**

Client: Wasatch Environmental Contact: Les Pennington  
 Project ID: Gunnison Remediation / 1241-026A  
 Lab Sample ID: 0905243-001  
 Client Sample ID: MW-36  
 Collection Date: 5/13/2009 9:53:00 AM Analyzed: 5/15/2009 5:04:00 AM  
 Received Date: 5/14/2009  
 Method Used: SW8260C

## Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

463 West 3600 South  
 Salt Lake City, Utah  
 84115

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Chlorotoluene	106-43-4	2.0	< 2.0	
4-Isopropyltoluene	99-87-6	2.0	< 2.0	
4-Methyl-2-pentanone	108-10-1	5.0	< 5.0	
Acetone	67-64-1	10	< 10	
(801) 263-8686				
Toll Free (888) 263-8686				
Fax (801) 263-8687				
mail: awal@awal-labs.com				
Kyle F. Gross				
Laboratory Director				
Jose Rocha				
QA Officer				
4-Chlorotoluene	106-43-4	2.0	< 2.0	
4-Isopropyltoluene	99-87-6	2.0	< 2.0	
4-Methyl-2-pentanone	108-10-1	5.0	< 5.0	
Acetone	67-64-1	10	< 10	
Acetonitrile	75-05-8	5.0	< 5.0	
Acrolein	107-02-8	5.0	< 5.0	
Acrylonitrile	107-13-1	10	< 10	
Allyl chloride	107-05-1	5.0	< 5.0	
Benzene	71-43-2	2.0	< 2.0	
Benzyl chloride	100-44-7	5.0	< 5.0	
Bis(2-chloroisopropyl) ether	108-60-1	5.0	< 5.0	
Bromobenzene	108-86-1	2.0	< 2.0	
Bromochloromethane	74-97-5	2.0	< 2.0	
Bromodichloromethane	75-27-4	2.0	< 2.0	
Bromoform	75-25-2	2.0	< 2.0	
Bromomethane	74-83-9	5.0	< 5.0	
Butyl acetate	123-86-4	5.0	< 5.0	
Carbon disulfide	75-15-0	2.0	< 2.0	
Carbon tetrachloride	56-23-5	2.0	< 2.0	
Chlorobenzene	108-90-7	2.0	< 2.0	
Chloroethane	75-00-3	2.0	< 2.0	
Chloroform	67-66-3	2.0	< 2.0	
Chloromethane	74-87-3	3.0	< 3.0	
Chloroprene	126-99-8	2.0	< 2.0	
cis-1,2-Dichloroethene	156-59-2	2.0	< 2.0	
cis-1,3-Dichloropropene	10061-01-5	2.0	< 2.0	
Cyclohexane	110-82-7	2.0	< 2.0	
Cyclohexanone	108-94-1	50	< 50	
Dibromochloromethane	124-48-1	2.0	< 2.0	

Report Date: 5/21/2009 Page 3 of 44

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only upon contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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# ORGANIC ANALYTICAL REPORT

**AMERICAN**  
**WEST**  
**ANALYTICAL**  
**LABORATORIES**

Client: Wasatch Environmental Contact: Les Pennington  
 Project ID: Gunnison Remediation / 1241-026A  
 Lab Sample ID: 0905243-001  
 Client Sample ID: MW-36  
 Collection Date: 5/13/2009 9:53:00 AM Analyzed: 5/15/2009 5:04:00 AM  
 Received Date: 5/14/2009  
 Method Used: SW8260C

## Analytical Results

## VOAs Full List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Dibromomethane	74-95-3	2.0	<2.0	
Dichlorodifluoromethane	75-71-8	2.0	<2.0	
Ethyl acetate	141-78-6	10	<10	
Ethyl ether	60-29-7	10	<10	
Ethyl methacrylate	97-63-2	2.0	<2.0	
Ethylbenzene	100-41-4	2.0	<2.0	
Hexachlorobutadiene	87-68-3	2.0	<2.0	
Iodomethane	74-88-4	5.0	<5.0	
Isobutyl alcohol	78-83-1	100	<100	
Isopropyl acetate	108-21-4	2.0	<2.0	
Isopropyl alcohol	67-63-0	25	<25	
Isopropylbenzene	98-82-8	2.0	<2.0	
m,p-Xylene	179601-23-1	2.0	<2.0	
Methacrylonitrile	126-98-7	5.0	<5.0	
Methyl Acetate	79-20-9	5.0	<5.0	
Methyl methacrylate	80-62-6	5.0	<5.0	
Methyl tert-butyl ether	1634-04-4	2.0	<2.0	
Methylcyclohexane	108-87-2	2.0	<2.0	
Methylene chloride	75-09-2	2.0	<2.0	
n-Amyl acetate	628-63-7	2.0	<2.0	
n-Butyl alcohol	71-36-3	50	<50	
n-Butylbenzene	104-51-8	2.0	<2.0	
n-Hexane	110-54-3	2.0	<2.0	
n-Octane	111-65-9	2.0	<2.0	
n-Propylbenzene	103-65-1	2.0	<2.0	
Naphthalene	91-20-3	2.0	<2.0	
o-Xylene	95-47-6	2.0	<2.0	
Pentachloroethane	76-01-7	5.0	<5.0	
Propionitrile	107-12-0	25	<25	

Report Date: 5/21/2009 Page 4 of 44

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

**A**

**AMERICAN  
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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## ORGANIC ANALYTICAL REPORT

<b>Client:</b>	Wasatch Environmental	<b>Contact:</b>	Les Pennington
<b>Project ID:</b>	Gunnison Remediation / 1241-026A		
<b>Lab Sample ID:</b>	0905243-001		
<b>Client Sample ID:</b>	MW-36		
<b>Collection Date:</b>	5/13/2009 9:53:00 AM	<b>Analyzed:</b>	5/15/2009 5:04:00 AM
<b>Received Date:</b>	5/14/2009	<b>Extracted:</b>	
<b>Method Used:</b>	SW8260C		

<b>Analytical Results</b>	VOAs Full List by GC/MS Method 8260C/5030C
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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Propyl acetate	109-60-4	2.0	< 2.0	
sec-Butylbenzene	135-98-8	2.0	< 2.0	
Styrene	100-42-5	2.0	< 2.0	
tert-Butyl alcohol	76-65-0	20	< 20	
tert-Butylbenzene	98-06-6	2.0	< 2.0	
Tetrachloroethene	127-18-4	2.0	< 2.0	
Tetrahydrofuran	109-99-9	2.0	< 2.0	
Toluene	108-88-3	2.0	< 2.0	
trans-1,2-Dichloroethene	156-60-5	2.0	< 2.0	
trans-1,3-Dichloropropene	10061-02-6	2.0	< 2.0	
trans-1,4-Dichloro-2-butene	110-57-6	2.0	< 2.0	
Trichloroethene	79-01-6	2.0	< 2.0	
Trichlorofluoromethane	75-69-4	2.0	< 2.0	
Vinyl acetate	108-05-4	10	< 10	
Vinyl chloride	75-01-4	1.0	< 1.0	
Xylenes, Total	1330-20-7	2.0	< 2.0	
TPH C11-C15 (DRO)		20	< 20	^
TPH C6-C10 (GRO)		20	47	^
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	113	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	102	
Surr: Dibromofluoromethane	1868-53-7	80-124	95.7	
Surr: Toluene-d8	2037-26-5	80-125	100	

*The pH of the sample was >2. Analysis was performed within the 7 day holding time.*

*^ - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.*

Report Date: 6/3/2009 Page 5 of 44

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

**A**

# ORGANIC ANALYTICAL REPORT

**AMERICAN WEST ANALYTICAL LABORATORIES**

Client: Wasatch Environmental Contact: Les Pennington  
 Project ID: Gunnison Remediation / 1241-026A  
 Lab Sample ID: 0905243-002  
 Client Sample ID: MW-37  
 Collection Date: 5/13/2009 5:30:00 PM Analyzed: 5/15/2009 5:30:00 AM  
 Received Date: 5/14/2009  
 Method Used: SW8260C

**Analytical Results****VOAs Full List by GC/MS Method 8260C/5030C**

463 West 3600 South  
 Salt Lake City, Utah  
 84115

Units: µg/L  
 Dilution Factor: 1

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.0	< 2.0	
1,1,1-Trichloroethane	71-55-6	2.0	< 2.0	
1,1,2,2-Tetrachloroethane	79-34-5	2.0	< 2.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.0	< 2.0	
1,1,2-Trichloroethane	79-00-5	2.0	< 2.0	
1,1-Dichloro-1-propene	563-58-6	2.0	< 2.0	
1,1-Dichloroethane	75-34-3	2.0	< 2.0	
1,1-Dichloroethene	75-35-4	2.0	< 2.0	
1,2,3-Trichlorobenzene	87-61-6	2.0	< 2.0	
1,2,3-Trichloropropane	96-18-4	2.0	< 2.0	
1,2,3-Trimethylbenzene	526-73-8	2.0	< 2.0	
1,2,4-Trichlorobenzene	120-82-1	2.0	< 2.0	
1,2,4-Trimethylbenzene	95-63-6	2.0	< 2.0	
1,2-Dibromo-3-chloropropane	96-12-8	5.0	< 5.0	
1,2-Dibromoethane	106-93-4	2.0	< 2.0	
1,2-Dichlorobenzene	95-50-1	2.0	< 2.0	
1,2-Dichloroethane	107-06-2	2.0	< 2.0	
1,2-Dichloropropane	78-87-5	2.0	< 2.0	
1,3,5-Trimethylbenzene	108-67-8	2.0	22	
1,3-Dichlorobenzene	541-73-1	2.0	< 2.0	
1,3-Dichloropropane	142-28-9	2.0	< 2.0	
1,4-Dichlorobenzene	106-46-7	2.0	< 2.0	
1,4-Dioxane	123-91-1	50	< 50	
2,2-Dichloropropane	594-20-7	2.0	< 2.0	
2-Butanone	78-93-3	10	< 10	
2-Chloroethyl vinyl ether	110-75-8	5.0	< 5.0	
2-Chlorotoluene	95-49-8	2.0	< 2.0	
2-Hexanone	591-78-6	5.0	< 5.0	
2-Nitropropane	79-46-9	5.0	< 5.0	

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Report Date: 5/21/2009 Page 6 of 44

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only upon contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.



## ORGANIC ANALYTICAL REPORT

**AMERICAN WEST ANALYTICAL LABORATORIES**  
 Client: Wasatch Environmental Contact: Les Pennington  
 Project ID: Gunnison Remediation / 1241-026A  
 Lab Sample ID: 0905243-002  
 Client Sample ID: MW-37  
 Collection Date: 5/13/2009 5:30:00 PM Analyzed: 5/15/2009 5:30:00 AM  
 Received Date: 5/14/2009  
 Method Used: SW8260C

### Analytical Results

### VOAs Full List by GC/MS Method 8260C/5030C

463 West 3600 South  
 Salt Lake City, Utah  
 84115

Units:  $\mu\text{g/L}$   
 Dilution Factor: 1

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
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4-Chlorotoluene	106-43-4	2.0	< 2.0	
4-Isopropyltoluene	99-87-6	2.0	11	
4-Methyl-2-pentanone	108-10-1	5.0	< 5.0	
Acetone	67-64-1	10	< 10	
(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 Email: awal@awal-labs.com	Acetonitrile	75-05-8	5.0	< 5.0
Kyle F. Gross Laboratory Director	Acrolein	107-02-8	5.0	< 5.0
Jose Rocha QA Officer	Acrylonitrile	107-13-1	10	< 10
	Allyl chloride	107-05-1	5.0	< 5.0
	Benzene	71-43-2	20	670 D
	Benzyl chloride	100-44-7	5.0	< 5.0
	Bis(2-chloroisopropyl) ether	108-60-1	5.0	< 5.0
	Bromobenzene	108-86-1	2.0	< 2.0
	Bromochloromethane	74-97-5	2.0	< 2.0
	Bromodichloromethane	75-27-4	2.0	< 2.0
	Bromoform	75-25-2	2.0	< 2.0
	Bromomethane	74-83-9	5.0	< 5.0
	Butyl acetate	123-86-4	5.0	< 5.0
	Carbon disulfide	75-15-0	2.0	< 2.0
	Carbon tetrachloride	56-23-5	2.0	< 2.0
	Chlorobenzene	108-90-7	2.0	< 2.0
	Chloroethane	75-00-3	2.0	< 2.0
	Chloroform	67-66-3	2.0	< 2.0
	Chloromethane	74-87-3	3.0	< 3.0
	Chloroprene	126-99-8	2.0	< 2.0
	cis-1,2-Dichloroethene	156-59-2	2.0	< 2.0
	cis-1,3-Dichloropropene	10061-01-5	2.0	< 2.0
	Cyclohexane	110-82-7	2.0	150
	Cyclohexanone	108-94-1	50	< 50
	Dibromochloromethane	124-48-1	2.0	< 2.0

Report Date: 5/21/2009 Page 7 of 44

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only upon contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

**A**

**AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES**

## ORGANIC ANALYTICAL REPORT

**Client:** Wasatch Environmental      **Contact:** Les Pennington  
**Project ID:** Gunnison Remediation / 1241-026A  
**Lab Sample ID:** 0905243-002  
**Client Sample ID:** MW-37  
**Collection Date:** 5/13/2009 5:30:00 PM      **Analyzed:** 5/15/2009 5:30:00 AM  
**Received Date:** 5/14/2009  
**Method Used:** SW8260C

### Analytical Results

VOAs Full List by GC/MS Method 8260C/5030C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Dibromomethane	74-95-3	2.0	< 2.0	
Dichlorodifluoromethane	75-71-8	2.0	< 2.0	
Ethyl acetate	141-78-6	10	< 10	
Ethyl ether	60-29-7	10	< 10	
Ethyl methacrylate	97-63-2	2.0	< 2.0	
Ethylbenzene	100-41-4	2.0	130	
Hexachlorobutadiene	87-68-3	2.0	< 2.0	
Iodomethane	74-88-4	5.0	< 5.0	
Isobutyl alcohol	78-83-1	100	< 100	
Isopropyl acetate	108-21-4	2.0	< 2.0	
Isopropyl alcohol	67-63-0	25	< 25	
Isopropylbenzene	98-82-8	2.0	26	
m,p-Xylene	179601-23-1	2.0	2.7	
Methacrylonitrile	126-98-7	5.0	< 5.0	
Methyl Acetate	79-20-9	5.0	< 5.0	
Methyl methacrylate	80-62-6	5.0	< 5.0	
Methyl tert-butyl ether	1634-04-4	2.0	< 2.0	
Methylcyclohexane	108-87-2	2.0	150	
Methylene chloride	75-09-2	2.0	< 2.0	
n-Amyl acetate	628-63-7	2.0	< 2.0	
n-Butyl alcohol	71-36-3	50	< 50	
n-Butylbenzene	104-51-8	2.0	9.2	
n-Hexane	110-54-3	2.0	180	
n-Octane	111-65-9	2.0	< 2.0	
n-Propylbenzene	103-65-1	2.0	71	
Naphthalene	91-20-3	2.0	110	
o-Xylene	95-47-6	2.0	< 2.0	
Pentachloroethane	76-01-7	5.0	< 5.0	
Propionitrile	107-12-0	25	< 25	

Report Date: 5/21/2009 Page 8 of 44

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only by contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

**A  
AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES**

## **ORGANIC ANALYTICAL REPORT**

**Client:** Wasatch Environmental      **Contact:** Les Pennington  
**Project ID:** Gunnison Remediation / 1241-026A  
**Lab Sample ID:** 0905243-002  
**Client Sample ID:** MW-37  
**Collection Date:** 5/13/2009 5:30:00 PM      **Analyzed:** 5/15/2009 5:30:00 AM  
**Received Date:** 5/14/2009      **Extracted:**  
**Method Used:** SW8260C

### **Analytical Results**

VOAs Full List by GC/MS Method 8260C/5030C

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Propyl acetate	109-60-4	2.0	< 2.0	
sec-Butylbenzene	135-98-8	2.0	5.7	
Styrene	100-42-5	2.0	< 2.0	
tert-Butyl alcohol	76-65-0	20	< 20	
tert-Butylbenzene	98-06-6	2.0	11	
Tetrachloroethene	127-18-4	2.0	< 2.0	
Tetrahydrofuran	109-99-9	2.0	< 2.0	
Toluene	108-88-3	2.0	11	
trans-1,2-Dichloroethene	156-60-5	2.0	< 2.0	
trans-1,3-Dichloropropene	10061-02-6	2.0	< 2.0	
trans-1,4-Dichloro-2-butene	110-57-6	2.0	< 2.0	
Trichloroethene	79-01-6	2.0	< 2.0	
Trichlorofluoromethane	75-69-4	2.0	< 2.0	
Vinyl acetate	108-05-4	10	< 10	
Vinyl chloride	75-01-4	1.0	< 1.0	
Xylenes, Total	1330-20-7	2.0	2.7	
TPH C11-C15 (DRO)		20	64	^
TPH C6-C10 (GRO)		20	2,300	^
Surr: 1,2-Dichloroethane-d4	17060-07-0	77-144	114	
Surr: 4-Bromofluorobenzene	460-00-4	80-123	100	
Surr: Dibromofluoromethane	1868-53-7	80-124	91.1	
Surr: Toluene-d8	2037-26-5	80-125	94.6	

<sup>^</sup> - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

D - This analyte was obtained from a 1:10 dilution.

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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905243

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
LCS VOC 051409A	1,1,1-Trichloroethane	µg/L	SW8260C	19	20.00	0	97.4	73-135				5/14/2009
LCS VOC 051409A	1,1-Dichloroethene	µg/L	SW8260C	20	20.00	0	101	52-171				5/14/2009
LCS VOC 051409A	1,2-Dichlorobenzene	µg/L	SW8260C	18	20.00	0	87.9	67-135				5/14/2009
LCS VOC 051409A	1,2-Dichloroethane	µg/L	SW8260C	21	20.00	0	103	60-137				5/14/2009
LCS VOC 051409A	1,2-Dichloropropane	µg/L	SW8260C	20	20.00	0	98.9	59-135				5/14/2009
LCS VOC 051409A	Benzene	µg/L	SW8260C	19	20.00	0	92.6	62-127				5/14/2009
LCS VOC 051409A	Chlorobenzene	µg/L	SW8260C	17	20.00	0	85.4	63-140				5/14/2009
LCS VOC 051409A	Chloroform	µg/L	SW8260C	19	20.00	0	94.3	67-132				5/14/2009
LCS VOC 051409A	Ethylbenzene	µg/L	SW8260C	17	20.00	0	86.7	69-133				5/14/2009
LCS VOC 051409A	Isopropylbenzene	µg/L	SW8260C	17	20.00	0	85.5	60-147				5/14/2009
LCS VOC 051409A	Methyl tert-butyl ether	µg/L	SW8260C	21	20.00	0	104	37-189				5/14/2009
LCS VOC 051409A	Methylene chloride	µg/L	SW8260C	21	20.00	0	103	67-138				5/14/2009
LCS VOC 051409A	Naphthalene	µg/L	SW8260C	19	20.00	0	96.2	41-131				5/14/2009
LCS VOC 051409A	Toluene	µg/L	SW8260C	18	20.00	0	88.6	67-126				5/14/2009
LCS VOC 051409A	Trichloroethene	µg/L	SW8260C	18	20.00	0	89.4	54-152				5/14/2009
LCS VOC 051409A	Xylenes, Total	µg/L	SW8260C	51	60.00	0	85.6	70-130				5/14/2009
LCS VOC 051809A	1,1,1-Trichloroethane	µg/L	SW8260C	21	20.00	0	104	73-135				5/18/2009
LCS VOC 051809A	1,1-Dichloroethene	µg/L	SW8260C	21	20.00	0	105	52-171				5/18/2009
LCS VOC 051809A	1,2-Dichlorobenzene	µg/L	SW8260C	18	20.00	0	91.7	67-135				5/18/2009
LCS VOC 051809A	1,2-Dichloroethane	µg/L	SW8260C	21	20.00	0	106	60-137				5/18/2009
LCS VOC 051809A	1,2-Dichloropropane	µg/L	SW8260C	20	20.00	0	101	59-135				5/18/2009
LCS VOC 051809A	Benzene	µg/L	SW8260C	19	20.00	0	97.4	62-127				5/18/2009
LCS VOC 051809A	Chlorobenzene	µg/L	SW8260C	18	20.00	0	89.0	63-140				5/18/2009
LCS VOC 051809A	Chloroform	µg/L	SW8260C	20	20.00	0	101	67-132				5/18/2009
LCS VOC 051809A	Ethylbenzene	µg/L	SW8260C	18	20.00	0	91.5	69-133				5/18/2009
LCS VOC 051809A	Isopropylbenzene	µg/L	SW8260C	18	20.00	0	90.2	60-147				5/18/2009
LCS VOC 051809A	Methyl tert-butyl ether	µg/L	SW8260C	22	20.00	0	109	37-189				5/18/2009
LCS VOC 051809A	Methylene chloride	µg/L	SW8260C	20	20.00	0	99.0	67-138				5/18/2009
LCS VOC 051809A	Naphthalene	µg/L	SW8260C	20	20.00	0	99.0	41-131				5/18/2009
LCS VOC 051809A	Toluene	µg/L	SW8260C	19	20.00	0	94.2	67-126				5/18/2009

Report Date: 5/21/2009 Page 26 of 44

**A**

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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905243

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
LCS VOC 051809A	Trichloroethene	µg/L	SW8260C	20	20.00	0	98.2	54-152				5/18/2009
LCS VOC 051809A	Xylenes, Total	µg/L	SW8260C	54	60.00	0	90.5	70-130				5/18/2009
LCS VOC 051809B	1,1,1-Trichloroethane	µg/L	SW8260C	22	20.00	0	110	73-135				5/18/2009
LCS VOC 051809B	1,1-Dichloroethene	µg/L	SW8260C	21	20.00	0	107	52-171				5/18/2009
LCS VOC 051809B	1,2-Dichlorobenzene	µg/L	SW8260C	18	20.00	0	89.4	67-135				5/18/2009
LCS VOC 051809B	1,2-Dichloroethane	µg/L	SW8260C	23	20.00	0	114	60-137				5/18/2009
LCS VOC 051809B	1,2-Dichloropropane	µg/L	SW8260C	22	20.00	0	108	59-135				5/18/2009
LCS VOC 051809B	Benzene	µg/L	SW8260C	20	20.00	0	102	62-127				5/18/2009
LCS VOC 051809B	Chlorobenzene	µg/L	SW8260C	18	20.00	0	91.6	63-140				5/18/2009
LCS VOC 051809B	Chloroform	µg/L	SW8260C	20	20.00	0	102	67-132				5/18/2009
LCS VOC 051809B	Ethylbenzene	µg/L	SW8260C	19	20.00	0	92.8	69-133				5/18/2009
LCS VOC 051809B	Isopropylbenzene	µg/L	SW8260C	18	20.00	0	90.1	60-147				5/18/2009
LCS VOC 051809B	Methyl tert-butyl ether	µg/L	SW8260C	22	20.00	0	112	37-189				5/18/2009
LCS VOC 051809B	Methylene chloride	µg/L	SW8260C	23	20.00	0	113	67-138				5/18/2009
LCS VOC 051809B	Naphthalene	µg/L	SW8260C	21	20.00	0	105	41-131				5/18/2009
LCS VOC 051809B	Toluene	µg/L	SW8260C	19	20.00	0	94.3	67-126				5/18/2009
LCS VOC 051809B	Trichloroethene	µg/L	SW8260C	20	20.00	0	100	54-152				5/18/2009
LCS VOC 051809B	Xylenes, Total	µg/L	SW8260C	54	60.00	0	89.9	70-130				5/18/2009

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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905243

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	% RPD	RPD Limit	Qualifiers	Analysis Date
MB VOC 051409A	1,1,1,2-Tetrachloroethane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,1,1-Trichloroethane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,1,2,2-Tetrachloroethane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,1,2-Trichloro-1,2,2-trifluoroetha	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,1,2-Trichloroethane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,1-Dichloro-1-propene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,1-Dichloroethane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,1-Dichloroethene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,2,3-Trichlorobenzene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,2,3-Trichloropropane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,2,3-Trimethylbenzene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,2,4-Trichlorobenzene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,2,4-Trimethylbenzene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,2-Dibromo-3-chloropropane	µg/L	SW8260C	< 5.0				-				5/14/2009
MB VOC 051409A	1,2-Dibromoethane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,2-Dichlorobenzene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,2-Dichloroethane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,2-Dichloropropane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,3,5-Trimethylbenzene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,3-Dichlorobenzene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,3-Dichloropropane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,4-Dichlorobenzene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	1,4-Dioxane	µg/L	SW8260C	< 50				-				5/14/2009
MB VOC 051409A	2,2-Dichloropropane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	2-Butanone	µg/L	SW8260C	< 10				-				5/14/2009
MB VOC 051409A	2-Chloroethyl vinyl ether	µg/L	SW8260C	< 5.0				-				5/14/2009
MB VOC 051409A	2-Chlorotoluene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	2-Hexanone	µg/L	SW8260C	< 5.0				-				5/14/2009
MB VOC 051409A	2-Nitropropane	µg/L	SW8260C	< 5.0				-				5/14/2009
MB VOC 051409A	4-Chlorotoluene	µg/L	SW8260C	< 2.0				-				5/14/2009

Report Date: 5/21/2009 Page 28 of 44

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Laboratory DirectorJose Rocha  
QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905243

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	% RPD	RPD Limit	Qualifiers	Analysis Date
MB VOC 051409A	4-Isopropyltoluene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	4-Methyl-2-pentanone	µg/L	SW8260C	< 5.0				-				5/14/2009
MB VOC 051409A	Acetone	µg/L	SW8260C	< 10				-				5/14/2009
MB VOC 051409A	Acetonitrile	µg/L	SW8260C	< 5.0				-				5/14/2009
MB VOC 051409A	Acrolein	µg/L	SW8260C	< 5.0				-				5/14/2009
MB VOC 051409A	Acrylonitrile	µg/L	SW8260C	< 10				-				5/14/2009
MB VOC 051409A	Allyl chloride	µg/L	SW8260C	< 5.0				-				5/14/2009
MB VOC 051409A	Benzene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Benzyl chloride	µg/L	SW8260C	< 5.0				-				5/14/2009
MB VOC 051409A	Bis(2-chloroisopropyl) ether	µg/L	SW8260C	< 5.0				-				5/14/2009
MB VOC 051409A	Bromobenzene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Bromochloromethane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Bromodichloromethane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Bromoform	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Bromomethane	µg/L	SW8260C	< 5.0				-				5/14/2009
MB VOC 051409A	Butyl acetate	µg/L	SW8260C	< 5.0				-				5/14/2009
MB VOC 051409A	Carbon disulfide	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Carbon tetrachloride	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Chlorobenzene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Chloroethane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Chloroform	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Chloromethane	µg/L	SW8260C	< 3.0				-				5/14/2009
MB VOC 051409A	Chloroprene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	cis-1,2-Dichloroethene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	cis-1,3-Dichloropropene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Cyclohexane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Cyclohexanone	µg/L	SW8260C	< 50				-				5/14/2009
MB VOC 051409A	Dibromochloromethane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Dibromomethane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Dichlorodifluoromethane	µg/L	SW8260C	< 2.0				-				5/14/2009

Report Date: 5/21/2009 Page 29 of 44

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Laboratory DirectorJose Rocha  
QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905243

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
MB VOC 051409A	Ethyl acetate	µg/L	SW8260C	< 10				-				5/14/2009
MB VOC 051409A	Ethyl ether	µg/L	SW8260C	< 10				-				5/14/2009
MB VOC 051409A	Ethyl methacrylate	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Ethylbenzene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Hexachlorobutadiene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Iodomethane	µg/L	SW8260C	< 5.0				-				5/14/2009
MB VOC 051409A	Isobutyl alcohol	µg/L	SW8260C	< 100				-				5/14/2009
MB VOC 051409A	Isopropyl acetate	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Isopropyl alcohol	µg/L	SW8260C	< 25				-				5/14/2009
MB VOC 051409A	Isopropylbenzene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	m,p-Xylene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Methacrylonitrile	µg/L	SW8260C	< 5.0				-				5/14/2009
MB VOC 051409A	Methyl Acetate	µg/L	SW8260C	< 5.0				-				5/14/2009
MB VOC 051409A	Methyl methacrylate	µg/L	SW8260C	< 5.0				-				5/14/2009
MB VOC 051409A	Methyl tert-butyl ether	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Methylcyclohexane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Methylene chloride	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	n-Amyl acetate	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Naphthalene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	n-Butyl alcohol	µg/L	SW8260C	< 50				-				5/14/2009
MB VOC 051409A	n-Butylbenzene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	n-Hexane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	n-Octane	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	n-Propylbenzene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	o-Xylene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Pentachloroethane	µg/L	SW8260C	< 5.0				-				5/14/2009
MB VOC 051409A	Propionitrile	µg/L	SW8260C	< 25				-				5/14/2009
MB VOC 051409A	Propyl acetate	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	sec-Butylbenzene	µg/L	SW8260C	< 2.0				-				5/14/2009
MB VOC 051409A	Styrene	µg/L	SW8260C	< 2.0				-				5/14/2009

Report Date: 5/21/2009 Page 30 of 44

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905243

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	% RPD	RPD Limit	Qualifiers	Analysis Date
MB VOC 051409A	tert-Butyl alcohol	µg/L	SW8260C	<20				-				5/14/2009
MB VOC 051409A	tert-Butylbenzene	µg/L	SW8260C	<2.0				-				5/14/2009
MB VOC 051409A	Tetrachloroethene	µg/L	SW8260C	<2.0				-				5/14/2009
MB VOC 051409A	Tetrahydrofuran	µg/L	SW8260C	<2.0				-				5/14/2009
MB VOC 051409A	Toluene	µg/L	SW8260C	<2.0				-				5/14/2009
MB VOC 051409A	trans-1,2-Dichloroethene	µg/L	SW8260C	<2.0				-				5/14/2009
MB VOC 051409A	trans-1,3-Dichloropropene	µg/L	SW8260C	<2.0				-				5/14/2009
MB VOC 051409A	trans-1,4-Dichloro-2-butene	µg/L	SW8260C	<2.0				-				5/14/2009
MB VOC 051409A	Trichloroethene	µg/L	SW8260C	<2.0				-				5/14/2009
MB VOC 051409A	Trichlorofluoromethane	µg/L	SW8260C	<2.0				-				5/14/2009
MB VOC 051409A	Vinyl acetate	µg/L	SW8260C	<10				-				5/14/2009
MB VOC 051409A	Vinyl chloride	µg/L	SW8260C	<1.0				-				5/14/2009
MB VOC 051409A	Xylenes, Total	µg/L	SW8260C	<2.0				-				5/14/2009
MB VOC 051809A	1,1,1,2-Tetrachloroethane	µg/L	SW8260C	<2.0				-				5/18/2009
MB VOC 051809A	1,1,1-Trichloroethane	µg/L	SW8260C	<2.0				-				5/18/2009
MB VOC 051809A	1,1,2,2-Tetrachloroethane	µg/L	SW8260C	<2.0				-				5/18/2009
MB VOC 051809A	1,1,2-Trichloro-1,2,2-trifluoroetha	µg/L	SW8260C	<2.0				-				5/18/2009
MB VOC 051809A	1,1,2-Trichloroethane	µg/L	SW8260C	<2.0				-				5/18/2009
MB VOC 051809A	1,1-Dichloro-1-propene	µg/L	SW8260C	<2.0				-				5/18/2009
MB VOC 051809A	1,1-Dichloroethane	µg/L	SW8260C	<2.0				-				5/18/2009
MB VOC 051809A	1,1-Dichloroethene	µg/L	SW8260C	<2.0				-				5/18/2009
MB VOC 051809A	1,2,3-Trichlorobenzene	µg/L	SW8260C	<2.0				-				5/18/2009
MB VOC 051809A	1,2,3-Trichloropropane	µg/L	SW8260C	<2.0				-				5/18/2009
MB VOC 051809A	1,2,3-Trimethylbenzene	µg/L	SW8260C	<2.0				-				5/18/2009
MB VOC 051809A	1,2,4-Trichlorobenzene	µg/L	SW8260C	<2.0				-				5/18/2009
MB VOC 051809A	1,2,4-Trimethylbenzene	µg/L	SW8260C	<2.0				-				5/18/2009
MB VOC 051809A	1,2-Dibromo-3-chloropropane	µg/L	SW8260C	<5.0				-				5/18/2009
MB VOC 051809A	1,2-Dibromoethane	µg/L	SW8260C	<2.0				-				5/18/2009
MB VOC 051809A	1,2-Dichlorobenzene	µg/L	SW8260C	<2.0				-				5/18/2009
MB VOC 051809A	1,2-Dichloroethane	µg/L	SW8260C	<2.0				-				5/18/2009

Report Date: 5/21/2009 Page 31 of 44

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905243

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
MB VOC 051809A	1,2-Dichloropropane	µg/L	SW8260C	<2.0								5/18/2009
MB VOC 051809A	1,3,5-Trimethylbenzene	µg/L	SW8260C	<2.0								5/18/2009
MB VOC 051809A	1,3-Dichlorobenzene	µg/L	SW8260C	<2.0								5/18/2009
MB VOC 051809A	1,3-Dichloropropane	µg/L	SW8260C	<2.0								5/18/2009
MB VOC 051809A	1,4-Dichlorobenzene	µg/L	SW8260C	<2.0								5/18/2009
MB VOC 051809A	1,4-Dioxane	µg/L	SW8260C	<50								5/18/2009
MB VOC 051809A	2,2-Dichloropropane	µg/L	SW8260C	<2.0								5/18/2009
MB VOC 051809A	2-Butanone	µg/L	SW8260C	<10								5/18/2009
MB VOC 051809A	2-Chloroethyl vinyl ether	µg/L	SW8260C	<5.0								5/18/2009
MB VOC 051809A	2-Chlorotoluene	µg/L	SW8260C	<2.0								5/18/2009
MB VOC 051809A	2-Hexanone	µg/L	SW8260C	<5.0								5/18/2009
MB VOC 051809A	2-Nitropropane	µg/L	SW8260C	<5.0								5/18/2009
MB VOC 051809A	4-Chlorotoluene	µg/L	SW8260C	<2.0								5/18/2009
MB VOC 051809A	4-Isopropyltoluene	µg/L	SW8260C	<2.0								5/18/2009
MB VOC 051809A	4-Methyl-2-pentanone	µg/L	SW8260C	<5.0								5/18/2009
MB VOC 051809A	Acetone	µg/L	SW8260C	<10								5/18/2009
MB VOC 051809A	Acetonitrile	µg/L	SW8260C	<5.0								5/18/2009
MB VOC 051809A	Acrolein	µg/L	SW8260C	<5.0								5/18/2009
MB VOC 051809A	Acrylonitrile	µg/L	SW8260C	<10								5/18/2009
MB VOC 051809A	Allyl chloride	µg/L	SW8260C	<5.0								5/18/2009
MB VOC 051809A	Benzene	µg/L	SW8260C	<2.0								5/18/2009
MB VOC 051809A	Benzyl chloride	µg/L	SW8260C	<5.0								5/18/2009
MB VOC 051809A	Bis(2-chloroisopropyl) ether	µg/L	SW8260C	<5.0								5/18/2009
MB VOC 051809A	Bromobenzene	µg/L	SW8260C	<2.0								5/18/2009
MB VOC 051809A	Bromochloromethane	µg/L	SW8260C	<2.0								5/18/2009
MB VOC 051809A	Bromodichloromethane	µg/L	SW8260C	<2.0								5/18/2009
MB VOC 051809A	Bromoform	µg/L	SW8260C	<2.0								5/18/2009
MB VOC 051809A	Bromomethane	µg/L	SW8260C	<5.0								5/18/2009
MB VOC 051809A	Butyl acetate	µg/L	SW8260C	<5.0								5/18/2009
MB VOC 051809A	Carbon disulfide	µg/L	SW8260C	<2.0								5/18/2009

Report Date: 5/21/2009 Page 32 of 44

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905243

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	% RPD	RPD Limit	Qualifiers	Analysis Date
MB VOC 051809A	Carbon tetrachloride	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	Chlorobenzene	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	Chloroethane	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	Chloroform	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	Chloromethane	µg/L	SW8260C	< 3.0								5/18/2009
MB VOC 051809A	Chloroprene	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	cis-1,2-Dichloroethene	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	cis-1,3-Dichloropropene	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	Cyclohexane	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	Cyclohexanone	µg/L	SW8260C	< 50								5/18/2009
MB VOC 051809A	Dibromochloromethane	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	Dibromomethane	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	Dichlorodifluoromethane	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	Ethyl acetate	µg/L	SW8260C	< 10								5/18/2009
MB VOC 051809A	Ethyl ether	µg/L	SW8260C	< 10								5/18/2009
MB VOC 051809A	Ethyl methacrylate	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	Ethylbenzene	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	Hexachlorobutadiene	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	Iodomethane	µg/L	SW8260C	< 5.0								5/18/2009
MB VOC 051809A	Isobutyl alcohol	µg/L	SW8260C	< 100								5/18/2009
MB VOC 051809A	Isopropyl acetate	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	Isopropyl alcohol	µg/L	SW8260C	< 25								5/18/2009
MB VOC 051809A	Isopropylbenzene	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	m,p-Xylene	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	Methacrylonitrile	µg/L	SW8260C	< 5.0								5/18/2009
MB VOC 051809A	Methyl Acetate	µg/L	SW8260C	< 5.0								5/18/2009
MB VOC 051809A	Methyl methacrylate	µg/L	SW8260C	< 5.0								5/18/2009
MB VOC 051809A	Methyl tert-butyl ether	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	Methylcyclohexane	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809A	Methylene chloride	µg/L	SW8260C	< 2.0								5/18/2009

Report Date: 5/21/2009 Page 33 of 44

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## AMERICAN WEST ANALYTICAL LABORATORIES

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K. Gr...  
Laboratory DirectorJose Rocha  
QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905243

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	% RPD	RPD Limit	Qualifiers	Analysis Date
MB VOC 051809A	n-Amyl acetate	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	Naphthalene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	n-Butyl alcohol	µg/L	SW8260C	< 50				-				5/18/2009
MB VOC 051809A	n-Butylbenzene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	n-Hexane	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	n-Octane	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	n-Propylbenzene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	o-Xylene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	Pentachloroethane	µg/L	SW8260C	< 5.0				-				5/18/2009
MB VOC 051809A	Propionitrile	µg/L	SW8260C	< 25				-				5/18/2009
MB VOC 051809A	Propyl acetate	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	sec-Butylbenzene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	Styrene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	tert-Butyl alcohol	µg/L	SW8260C	< 20				-				5/18/2009
MB VOC 051809A	tert-Butylbenzene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	Tetrachloroethene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	Tetrahydrofuran	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	Toluene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	trans-1,2-Dichloroethene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	trans-1,3-Dichloropropene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	trans-1,4-Dichloro-2-butene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	Trichloroethene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	Trichlorofluoromethane	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809A	Vinyl acetate	µg/L	SW8260C	< 10				-				5/18/2009
MB VOC 051809A	Vinyl chloride	µg/L	SW8260C	< 1.0				-				5/18/2009
MB VOC 051809A	Xylenes, Total	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,1,1,2-Tetrachloroethane	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,1,1-Trichloroethane	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,1,2,2-Tetrachloroethane	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,1,2-Trichloro-1,2,2-trifluoroetha	µg/L	SW8260C	< 2.0				-				5/18/2009

Report Date: 5/21/2009 Page 34 of 44

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## AMERICAN WEST ANALYTICAL LABORATORIES

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Mr. [REDACTED]  
Laboratory DirectorJose Rocha  
QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905243

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	% RPD	RPD Limit	Qualifiers	Analysis Date
MB VOC 051809B	1,1,2-Trichloroethane	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,1-Dichloro-1-propene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,1-Dichloroethane	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,1-Dichloroethene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,2,3-Trichlorobenzene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,2,3-Trichloropropane	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,2,3-Trimethylbenzene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,2,4-Trichlorobenzene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,2,4-Trimethylbenzene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,2-Dibromo-3-chloropropane	µg/L	SW8260C	< 5.0				-				5/18/2009
MB VOC 051809B	1,2-Dibromoethane	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,2-Dichlorobenzene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,2-Dichloroethane	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,2-Dichloropropane	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,3,5-Trimethylbenzene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,3-Dichlorobenzene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,3-Dichloropropane	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,4-Dichlorobenzene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	1,4-Dioxane	µg/L	SW8260C	< 50				-				5/18/2009
MB VOC 051809B	2,2-Dichloropropane	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	2-Butanone	µg/L	SW8260C	< 10				-				5/18/2009
MB VOC 051809B	2-Chloroethyl vinyl ether	µg/L	SW8260C	< 5.0				-				5/18/2009
MB VOC 051809B	2-Chlorotoluene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	2-Hexanone	µg/L	SW8260C	< 5.0				-				5/18/2009
MB VOC 051809B	2-Nitropropane	µg/L	SW8260C	< 5.0				-				5/18/2009
MB VOC 051809B	4-Chlorotoluene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	4-Isopropyltoluene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	4-Methyl-2-pentanone	µg/L	SW8260C	< 5.0				-				5/18/2009
MB VOC 051809B	Acetone	µg/L	SW8260C	< 10				-				5/18/2009
MB VOC 051809B	Acetonitrile	µg/L	SW8260C	< 5.0				-				5/18/2009

Report Date: 5/21/2009 Page 35 of 44

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F. G.  
Laboratory DirectorJose Rocha  
QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905243

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
MB VOC 051809B	Acrolein	µg/L	SW8260C	< 5.0								5/18/2009
MB VOC 051809B	Acrylonitrile	µg/L	SW8260C	< 10								5/18/2009
MB VOC 051809B	Allyl chloride	µg/L	SW8260C	< 5.0								5/18/2009
MB VOC 051809B	Benzene	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809B	Benzyl chloride	µg/L	SW8260C	< 5.0								5/18/2009
MB VOC 051809B	Bis(2-chloroisopropyl) ether	µg/L	SW8260C	< 5.0								5/18/2009
MB VOC 051809B	Bromobenzene	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809B	Bromoform	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809B	Bromomethane	µg/L	SW8260C	< 5.0								5/18/2009
MB VOC 051809B	Butyl acetate	µg/L	SW8260C	< 5.0								5/18/2009
MB VOC 051809B	Carbon disulfide	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809B	Carbon tetrachloride	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809B	Chlorobenzene	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809B	Chloroethane	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809B	Chloroform	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809B	Chloromethane	µg/L	SW8260C	< 3.0								5/18/2009
MB VOC 051809B	Chloroprene	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809B	cis-1,2-Dichloroethene	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809B	cis-1,3-Dichloropropene	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809B	Cyclohexane	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809B	Cyclohexanone	µg/L	SW8260C	< 50								5/18/2009
MB VOC 051809B	Dibromochloromethane	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809B	Dibromomethane	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809B	Dichlorodifluoromethane	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809B	Ethyl acetate	µg/L	SW8260C	< 10								5/18/2009
MB VOC 051809B	Ethyl ether	µg/L	SW8260C	< 10								5/18/2009
MB VOC 051809B	Ethyl methacrylate	µg/L	SW8260C	< 2.0								5/18/2009
MB VOC 051809B	Ethylbenzene	µg/L	SW8260C	< 2.0								5/18/2009

Report Date: 5/21/2009 Page 36 of 44

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Laboratory DirectorJose Rocha  
QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905243

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	% RPD	RPD Limit	Qualifiers	Analysis Date
MB VOC 051809B	Hexachlorobutadiene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	Iodomethane	µg/L	SW8260C	< 5.0				-				5/18/2009
MB VOC 051809B	Isobutyl alcohol	µg/L	SW8260C	< 100				-				5/18/2009
MB VOC 051809B	Isopropyl acetate	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	Isopropyl alcohol	µg/L	SW8260C	< 25				-				5/18/2009
MB VOC 051809B	Isopropylbenzene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	m,p-Xylene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	Methacrylonitrile	µg/L	SW8260C	< 5.0				-				5/18/2009
MB VOC 051809B	Methyl Acetate	µg/L	SW8260C	< 5.0				-				5/18/2009
MB VOC 051809B	Methyl methacrylate	µg/L	SW8260C	< 5.0				-				5/18/2009
MB VOC 051809B	Methyl tert-butyl ether	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	Methylcyclohexane	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	Methylene chloride	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	n-Amyl acetate	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	Naphthalene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	n-Butyl alcohol	µg/L	SW8260C	< 50				-				5/18/2009
MB VOC 051809B	n-Butylbenzene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	n-Hexane	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	n-Octane	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	n-Propylbenzene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	o-Xylene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	Pentachloroethane	µg/L	SW8260C	< 5.0				-				5/18/2009
MB VOC 051809B	Propionitrile	µg/L	SW8260C	< 25				-				5/18/2009
MB VOC 051809B	Propyl acetate	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	sec-Butylbenzene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	Styrene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	tert-Butyl alcohol	µg/L	SW8260C	< 20				-				5/18/2009
MB VOC 051809B	tert-Butylbenzene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	Tetrachloroethene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	Tetrahydrofuran	µg/L	SW8260C	< 2.0				-				5/18/2009

Report Date: 5/21/2009 Page 37 of 44

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## AMERICAN WEST ANALYTICAL LABORATORIES

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K. Gro  
Laboratory DirectorJose Rocha  
QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905243

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
MB VOC 051809B	Toluene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	trans-1,2-Dichloroethene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	trans-1,3-Dichloropropene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	trans-1,4-Dichloro-2-butene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	Trichloroethene	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	Trichlorofluoromethane	µg/L	SW8260C	< 2.0				-				5/18/2009
MB VOC 051809B	Vinyl acetate	µg/L	SW8260C	< 10				-				5/18/2009
MB VOC 051809B	Vinyl chloride	µg/L	SW8260C	< 1.0				-				5/18/2009
MB VOC 051809B	Xylenes, Total	µg/L	SW8260C	< 2.0				-				5/18/2009

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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905243

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
0905191-001AMS	1,1,1-Trichloroethane	µg/L	SW8260C	24	20.00	0	118	67-147				5/15/2009
0905191-001AMS	1,1-Dichloroethene	µg/L	SW8260C	24	20.00	0	120	62-152				5/15/2009
0905191-001AMS	1,2-Dichlorobenzene	µg/L	SW8260C	20	20.00	0	101	70-130				5/15/2009
0905191-001AMS	1,2-Dichloroethane	µg/L	SW8260C	24	20.00	0	122	39-162				5/15/2009
0905191-001AMS	1,2-Dichloropropane	µg/L	SW8260C	23	20.00	0	113	70-130				5/15/2009
0905191-001AMS	Benzene	µg/L	SW8260C	22	20.00	0	110	66-145				5/15/2009
0905191-001AMS	Chlorobenzene	µg/L	SW8260C	20	20.00	0	98.7	77-123				5/15/2009
0905191-001AMS	Chloroform	µg/L	SW8260C	21	20.00	0	107	50-146				5/15/2009
0905191-001AMS	Ethylbenzene	µg/L	SW8260C	20	20.00	0	101	70-130				5/15/2009
0905191-001AMS	Isopropylbenzene	µg/L	SW8260C	19	20.00	0	96.5	70-130				5/15/2009
0905191-001AMS	Methyl tert-butyl ether	µg/L	SW8260C	25	20.00	0	125	48-142				5/15/2009
0905191-001AMS	Methylene chloride	µg/L	SW8260C	24	20.00	0	120	65-135				5/15/2009
0905191-001AMS	Naphthalene	µg/L	SW8260C	24	20.00	0	121	44-129				5/15/2009
0905191-001AMS	Toluene	µg/L	SW8260C	21	20.00	0	103	18-192				5/15/2009
0905191-001AMS	Trichloroethene	µg/L	SW8260C	21	20.00	0	106	61-153				5/15/2009
0905191-001AMS	Xylenes, Total	µg/L	SW8260C	58	60.00	0	97.3	42-167				5/15/2009
0905205-001AMS	1,1,1-Trichloroethane	µg/L	SW8260C	22	20.00	0	110	67-147				5/15/2009
0905205-001AMS	1,1-Dichloroethene	µg/L	SW8260C	22	20.00	0	110	62-152				5/15/2009
0905205-001AMS	1,2-Dichlorobenzene	µg/L	SW8260C	18	20.00	0	89.2	70-130				5/15/2009
0905205-001AMS	1,2-Dichloroethane	µg/L	SW8260C	22	20.00	0	110	39-162				5/15/2009
0905205-001AMS	1,2-Dichloropropane	µg/L	SW8260C	21	20.00	0	107	70-130				5/15/2009
0905205-001AMS	Benzene	µg/L	SW8260C	21	20.00	0	104	66-145				5/15/2009
0905205-001AMS	Chlorobenzene	µg/L	SW8260C	19	20.00	0	94.3	77-123				5/15/2009
0905205-001AMS	Chloroform	µg/L	SW8260C	20	20.00	0	101	50-146				5/15/2009
0905205-001AMS	Ethylbenzene	µg/L	SW8260C	19	20.00	0	95.2	70-130				5/15/2009
0905205-001AMS	Isopropylbenzene	µg/L	SW8260C	18	20.00	0	91.8	70-130				5/15/2009
0905205-001AMS	Methyl tert-butyl ether	µg/L	SW8260C	20	20.00	0	99.6	48-142				5/15/2009
0905205-001AMS	Methylene chloride	µg/L	SW8260C	22	20.00	0	112	65-135				5/15/2009
0905205-001AMS	Naphthalene	µg/L	SW8260C	12	20.00	0	59.8	44-129				5/15/2009
0905205-001AMS	Toluene	µg/L	SW8260C	20	20.00	0	97.6	18-192				5/15/2009

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K. Grd  
Laboratory DirectorJose Rocha  
QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905243

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	% RPD	RPD Limit Qualifiers	Analysis Date
0905205-001AMS	Trichloroethene	µg/L	SW8260C	20	20.00	0	99.7	61-153			5/15/2009
0905205-001AMS	Xylenes, Total	µg/L	SW8260C	55	60.00	0	91.5	42-167			5/15/2009
0905243-005AMS	1,1,1-Trichloroethane	µg/L	SW8260C	25	20.00	0	126	67-147			5/18/2009
0905243-005AMS	1,1-Dichloroethene	µg/L	SW8260C	25	20.00	0	123	62-152			5/18/2009
0905243-005AMS	1,2-Dichlorobenzene	µg/L	SW8260C	20	20.00	0	101	70-130			5/18/2009
0905243-005AMS	1,2-Dichloroethane	µg/L	SW8260C	25	20.00	0	125	39-162			5/18/2009
0905243-005AMS	1,2-Dichloropropane	µg/L	SW8260C	24	20.00	0	119	70-130			5/18/2009
0905243-005AMS	Benzene	µg/L	SW8260C	23	20.00	0	115	66-145			5/18/2009
0905243-005AMS	Chlorobenzene	µg/L	SW8260C	21	20.00	0	103	77-123			5/18/2009
0905243-005AMS	Chloroform	µg/L	SW8260C	23	20.00	0	114	50-146			5/18/2009
0905243-005AMS	Ethylbenzene	µg/L	SW8260C	21	20.00	0	104	70-130			5/18/2009
0905243-005AMS	Isopropylbenzene	µg/L	SW8260C	21	20.00	0	103	70-130			5/18/2009
0905243-005AMS	Methyl tert-butyl ether	µg/L	SW8260C	25	20.00	0	124	48-142			5/18/2009
0905243-005AMS	Methylene chloride	µg/L	SW8260C	24	20.00	0	119	65-135			5/18/2009
0905243-005AMS	Naphthalene	µg/L	SW8260C	15	20.00	0	72.6	44-129			5/18/2009
0905243-005AMS	Toluene	µg/L	SW8260C	21	20.00	0	106	18-192			5/18/2009
0905243-005AMS	Trichloroethene	µg/L	SW8260C	23	20.00	0	113	61-153			5/18/2009
0905243-005AMS	Xylenes, Total	µg/L	SW8260C	58	60.00	0	96.6	42-167			5/18/2009
0905244-018AMS	1,1,1-Trichloroethane	µg/L	SW8260C	200	200.0	0	102	67-147			5/18/2009
0905244-018AMS	1,1-Dichloroethene	µg/L	SW8260C	200	200.0	0	99.2	62-152			5/18/2009
0905244-018AMS	1,2-Dichlorobenzene	µg/L	SW8260C	170	200.0	0	83.3	70-130			5/18/2009
0905244-018AMS	1,2-Dichloroethane	µg/L	SW8260C	210	200.0	0	107	39-162			5/18/2009
0905244-018AMS	1,2-Dichloropropane	µg/L	SW8260C	200	200.0	0	101	70-130			5/18/2009
0905244-018AMS	Benzene	µg/L	SW8260C	190	200.0	0	96.5	66-145			5/18/2009
0905244-018AMS	Chlorobenzene	µg/L	SW8260C	170	200.0	0	85.4	77-123			5/18/2009
0905244-018AMS	Chloroform	µg/L	SW8260C	200	200.0	0	98.1	50-146			5/18/2009
0905244-018AMS	Ethylbenzene	µg/L	SW8260C	250	200.0	76.40	85.4	70-130			5/18/2009
0905244-018AMS	Isopropylbenzene	µg/L	SW8260C	200	200.0	32.80	83.2	70-130			5/18/2009
0905244-018AMS	Methyl tert-butyl ether	µg/L	SW8260C	200	200.0	0	101	48-142			5/18/2009
0905244-018AMS	Methylene chloride	µg/L	SW8260C	210	200.0	0	104	65-135			5/18/2009

Report Date: 5/21/2009 Page 40 of 44

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J. F. Gr...  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**CLIENT:** Wasatch Environmental

**Lab Set ID:** 0905243

**Project:** Gunnison Remediation / 1241-026A

**Dept:** MSVOA

**SampType:** MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	% RPD	RPD Limit Qualifiers	Analysis Date
0905244-018AMS	Naphthalene	µg/L	SW8260C	300	200.0	94.50	103	44-129			5/18/2009
0905244-018AMS	Toluene	µg/L	SW8260C	170	200.0	0	87.1	18-192			5/18/2009
0905244-018AMS	Trichloroethene	µg/L	SW8260C	180	200.0	0	92.1	61-153			5/18/2009
0905244-018AMS	Xylenes, Total	µg/L	SW8260C	620	600.0	126.0	82.0	42-167			5/18/2009

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Laboratory DirectorJose Rocha  
QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905243

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	% RPD	RPD Limit	Qualifiers	Analysis Date
0905191-001AMSD	1,1,1-Trichloroethane	µg/L	SW8260C	22	20.00	0	110	67-147	6.59	25		5/15/2009
0905191-001AMSD	1,1-Dichloroethene	µg/L	SW8260C	22	20.00	0	109	62-152	9.49	25		5/15/2009
0905191-001AMSD	1,2-Dichlorobenzene	µg/L	SW8260C	19	20.00	0	96.2	70-130	4.97	25		5/15/2009
0905191-001AMSD	1,2-Dichloroethane	µg/L	SW8260C	23	20.00	0	116	39-162	5.19	25		5/15/2009
0905191-001AMSD	1,2-Dichloropropane	µg/L	SW8260C	22	20.00	0	108	70-130	4.97	25		5/15/2009
0905191-001AMSD	Benzene	µg/L	SW8260C	21	20.00	0	103	66-145	6.80	25		5/15/2009
0905191-001AMSD	Chlorobenzene	µg/L	SW8260C	19	20.00	0	93.8	77-123	5.04	25		5/15/2009
0905191-001AMSD	Chloroform	µg/L	SW8260C	20	20.00	0	101	50-146	5.73	25		5/15/2009
0905191-001AMSD	Ethylbenzene	µg/L	SW8260C	19	20.00	0	95.5	70-130	5.94	25		5/15/2009
0905191-001AMSD	Isopropylbenzene	µg/L	SW8260C	18	20.00	0	91.6	70-130	5.21	25		5/15/2009
0905191-001AMSD	Methyl tert-butyl ether	µg/L	SW8260C	24	20.00	0	120	48-142	4.09	25		5/15/2009
0905191-001AMSD	Methylene chloride	µg/L	SW8260C	22	20.00	0	112	65-135	7.15	25		5/15/2009
0905191-001AMSD	Naphthalene	µg/L	SW8260C	23	20.00	0	115	44-129	5.72	25		5/15/2009
0905191-001AMSD	Toluene	µg/L	SW8260C	19	20.00	0	96.7	18-192	6.07	25		5/15/2009
0905191-001AMSD	Trichloroethene	µg/L	SW8260C	20	20.00	0	99.0	61-153	6.50	25		5/15/2009
0905191-001AMSD	Xylenes, Total	µg/L	SW8260C	55	60.00	0	91.0	42-167	6.71	25		5/15/2009
0905205-001AMSD	1,1,1-Trichloroethane	µg/L	SW8260C	23	20.00	0	114	67-147	4.06	25		5/15/2009
0905205-001AMSD	1,1-Dichloroethene	µg/L	SW8260C	23	20.00	0	116	62-152	5.27	25		5/15/2009
0905205-001AMSD	1,2-Dichlorobenzene	µg/L	SW8260C	19	20.00	0	96.2	70-130	7.55	25		5/15/2009
0905205-001AMSD	1,2-Dichloroethane	µg/L	SW8260C	23	20.00	0	116	39-162	4.74	25		5/15/2009
0905205-001AMSD	1,2-Dichloropropane	µg/L	SW8260C	22	20.00	0	111	70-130	3.91	25		5/15/2009
0905205-001AMSD	Benzene	µg/L	SW8260C	22	20.00	0	108	66-145	3.69	25		5/15/2009
0905205-001AMSD	Chlorobenzene	µg/L	SW8260C	20	20.00	0	97.5	77-123	3.34	25		5/15/2009
0905205-001AMSD	Chloroform	µg/L	SW8260C	21	20.00	0	104	50-146	2.98	25		5/15/2009
0905205-001AMSD	Ethylbenzene	µg/L	SW8260C	20	20.00	0	99.7	70-130	4.67	25		5/15/2009
0905205-001AMSD	Isopropylbenzene	µg/L	SW8260C	20	20.00	0	98.0	70-130	6.58	25		5/15/2009
0905205-001AMSD	Methyl tert-butyl ether	µg/L	SW8260C	22	20.00	0	112	48-142	12.2	25		5/15/2009
0905205-001AMSD	Methylene chloride	µg/L	SW8260C	23	20.00	0	117	65-135	3.58	25		5/15/2009
0905205-001AMSD	Naphthalene	µg/L	SW8260C	20	20.00	0	99.6	44-129	50.0	25	@	5/15/2009
0905205-001AMSD	Toluene	µg/L	SW8260C	20	20.00	0	101	18-192	3.32	25		5/15/2009

Report Date: 5/21/2009 Page 42 of 44

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Laboratory DirectorJose Rocha  
QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905243

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	% RPD	RPD Limit	Qualifiers	Analysis Date
0905205-001AMSD	Trichloroethene	µg/L	SW8260C	21	20.00	0	103	61-153	3.50	25		5/15/2009
0905205-001AMSD	Xylenes, Total	µg/L	SW8260C	57	60.00	0	95.6	42-167	4.43	25		5/15/2009
0905243-005AMSD	1,1,1-Trichloroethane	µg/L	SW8260C	27	20.00	0	137	67-147	8.07	25		5/18/2009
0905243-005AMSD	1,1-Dichloroethene	µg/L	SW8260C	27	20.00	0	135	62-152	9.36	25		5/18/2009
0905243-005AMSD	1,2-Dichlorobenzene	µg/L	SW8260C	22	20.00	0	109	70-130	8.38	25		5/18/2009
0905243-005AMSD	1,2-Dichloroethane	µg/L	SW8260C	27	20.00	0	133	39-162	5.98	25		5/18/2009
0905243-005AMSD	1,2-Dichloropropane	µg/L	SW8260C	25	20.00	0	127	70-130	7.12	25		5/18/2009
0905243-005AMSD	Benzene	µg/L	SW8260C	25	20.00	0	123	66-145	6.46	25		5/18/2009
0905243-005AMSD	Chlorobenzene	µg/L	SW8260C	22	20.00	0	111	77-123	7.35	25		5/18/2009
0905243-005AMSD	Chloroform	µg/L	SW8260C	25	20.00	0	123	50-146	7.76	25		5/18/2009
0905243-005AMSD	Ethylbenzene	µg/L	SW8260C	23	20.00	0	113	70-130	7.89	25		5/18/2009
0905243-005AMSD	Isopropylbenzene	µg/L	SW8260C	23	20.00	0	113	70-130	9.69	25		5/18/2009
0905243-005AMSD	Methyl tert-butyl ether	µg/L	SW8260C	26	20.00	0	131	48-142	5.18	25		5/18/2009
0905243-005AMSD	Methylene chloride	µg/L	SW8260C	26	20.00	0	129	65-135	8.02	25		5/18/2009
0905243-005AMSD	Naphthalene	µg/L	SW8260C	22	20.00	0	108	44-129	39.0	25	@	5/18/2009
0905243-005AMSD	Toluene	µg/L	SW8260C	23	20.00	0	116	18-192	8.62	25		5/18/2009
0905243-005AMSD	Trichloroethene	µg/L	SW8260C	25	20.00	0	123	61-153	8.37	25		5/18/2009
0905243-005AMSD	Xylenes, Total	µg/L	SW8260C	66	60.00	0	110	42-167	13.1	25		5/18/2009
0905244-018AMSD	1,1,1-Trichloroethane	µg/L	SW8260C	210	200.0	0	105	67-147	2.27	25		5/18/2009
0905244-018AMSD	1,1-Dichloroethene	µg/L	SW8260C	200	200.0	0	99.4	62-152	0.252	25		5/18/2009
0905244-018AMSD	1,2-Dichlorobenzene	µg/L	SW8260C	170	200.0	0	85.4	70-130	2.55	25		5/18/2009
0905244-018AMSD	1,2-Dichloroethane	µg/L	SW8260C	220	200.0	0	111	39-162	4.00	25		5/18/2009
0905244-018AMSD	1,2-Dichloropropane	µg/L	SW8260C	210	200.0	0	104	70-130	2.44	25		5/18/2009
0905244-018AMSD	Benzene	µg/L	SW8260C	200	200.0	0	97.8	66-145	1.39	25		5/18/2009
0905244-018AMSD	Chlorobenzene	µg/L	SW8260C	180	200.0	0	87.7	77-123	2.72	25		5/18/2009
0905244-018AMSD	Chloroform	µg/L	SW8260C	200	200.0	0	100	50-146	2.02	25		5/18/2009
0905244-018AMSD	Ethylbenzene	µg/L	SW8260C	250	200.0	76.40	88.0	70-130	2.12	25		5/18/2009
0905244-018AMSD	Isopropylbenzene	µg/L	SW8260C	200	200.0	32.80	85.3	70-130	2.04	25		5/18/2009
0905244-018AMSD	Methyl tert-butyl ether	µg/L	SW8260C	220	200.0	0	108	48-142	6.49	25		5/18/2009
0905244-018AMSD	Methylene chloride	µg/L	SW8260C	210	200.0	0	105	65-135	1.29	25		5/18/2009

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## AMERICAN WEST ANALYTICAL LABORATORIES

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[REDACTED] F. Gr[REDACTED]  
 Laboratory Director

Jose Rocha  
 QA Officer

## QC SUMMARY REPORT

CLIENT: Wasatch Environmental

Lab Set ID: 0905243

Project: Gunnison Remediation / 1241-026A

Dept: MSVOA

SampType: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	% REC	Limits	% RPD	RPD Limit	Qualifiers	Analysis Date
0905244-018AMSD	Naphthalene	µg/L	SW8260C	360	200.0	94.50	132	44-129	17.6	25	<sup>1</sup>	5/18/2009
0905244-018AMSD	Toluene	µg/L	SW8260C	180	200.0	0	88.6	18-192	1.65	25		5/18/2009
0905244-018AMSD	Trichloroethene	µg/L	SW8260C	190	200.0	0	95.4	61-153	3.52	25		5/18/2009
0905244-018AMSD	Xylenes, Total	µg/L	SW8260C	630	600.0	126.0	84.0	42-167	1.95	25		5/18/2009

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

# American West Analytical Laboratories

## WORK ORDER Summary

14-May-09

Work Order: 0905243

WO Type: Standard

Client ID: WAS580

Contact: Les Pennington

Project: Gunnison Remediation / 1241-026A

QC Level: LEVEL II+

Reviewed by on

Comments: PA Rush / QC 2+

Sample ID	Client Sample ID	Date Collected	Date Received	Date Due	Matrix	Test Code	Hld	MS	SEL	Sub	Storage
0905243-001A	MW-36	5/13/2009 9:53:00 AM	5/14/2009	5/26/2009	Aqueous	8260-W	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	vOC
0905243-002A	MW-37	5/13/2009 5:30:00 PM		5/26/2009		8260-W	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	vOC
0905243-003A	MW-32	5/13/2009 8:45:00 PM		5/26/2009		8260-W	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	vOC
0905243-004A	MW-33	5/13/2009 8:25:00 AM		5/26/2009		8260-W	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	vOC
0905243-005A	MW-34	5/13/2009 7:50:00 AM		5/26/2009		8260-W	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	vOC
0905243-006A	MW-35	5/12/2009 6:26:00 PM		5/26/2009		8260-W	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	vOC

